

OKLAHOMA  
**PANHANDLE STATE**  
UNIVERSITY



**2018-19**  
**GENERAL CATALOG**

# OPSU Academic Calendar

## 2018/2019

### ***Fall Semester 2018***

#### **August 13 through December 7**

August 13 ..... Classes Begin  
 September 3 ..... Labor Day (no classes)  
 October 19 ..... Fall Break (no classes)  
 November 19, 20, 21, 22, and 23 ..... Thanksgiving Break (no classes)  
 December 4, 5, 6, and 7 ..... Final Examinations  
 December 7 ..... Semester Ends

### ***Winter Interterm 2018***

#### **December 10 through December 21**

December 10 ..... Classes Begin  
 December 21 ..... Term Ends

### ***Spring Semester 2019***

#### **January 7 through May 7**

January 7 ..... Classes Begin  
 January 21 ..... Martin Luther King Day (no classes)  
 March 18-22 ..... Spring Break (no classes)  
 April 19 ..... Easter Break (no classes)  
 May 2, 3 and 6, 7 ..... Final Examinations  
 May 7 ..... Semester Ends  
 May 9 ..... Commencement

### ***May Interterm 2019***

#### **May 13 through May 24**

May 13 ..... Classes Begin  
 May 24 ..... Term Ends

### ***Summer Term 2019***

#### **Full 8 week term - June 3 through July 29**

#### **1st 6 week term - June 3 through July 15**

#### **2nd 6 week term - June 17 through July 29**

June 3 (Full 8-week and 1st 6-week term) ..... Classes Begin  
 July 4 ..... Independence Day (no classes)  
 July 15 (1st 6-week term) ..... Semester Ends  
 July 29 (2nd 6-week and Full 8-week term) ..... Semester Ends

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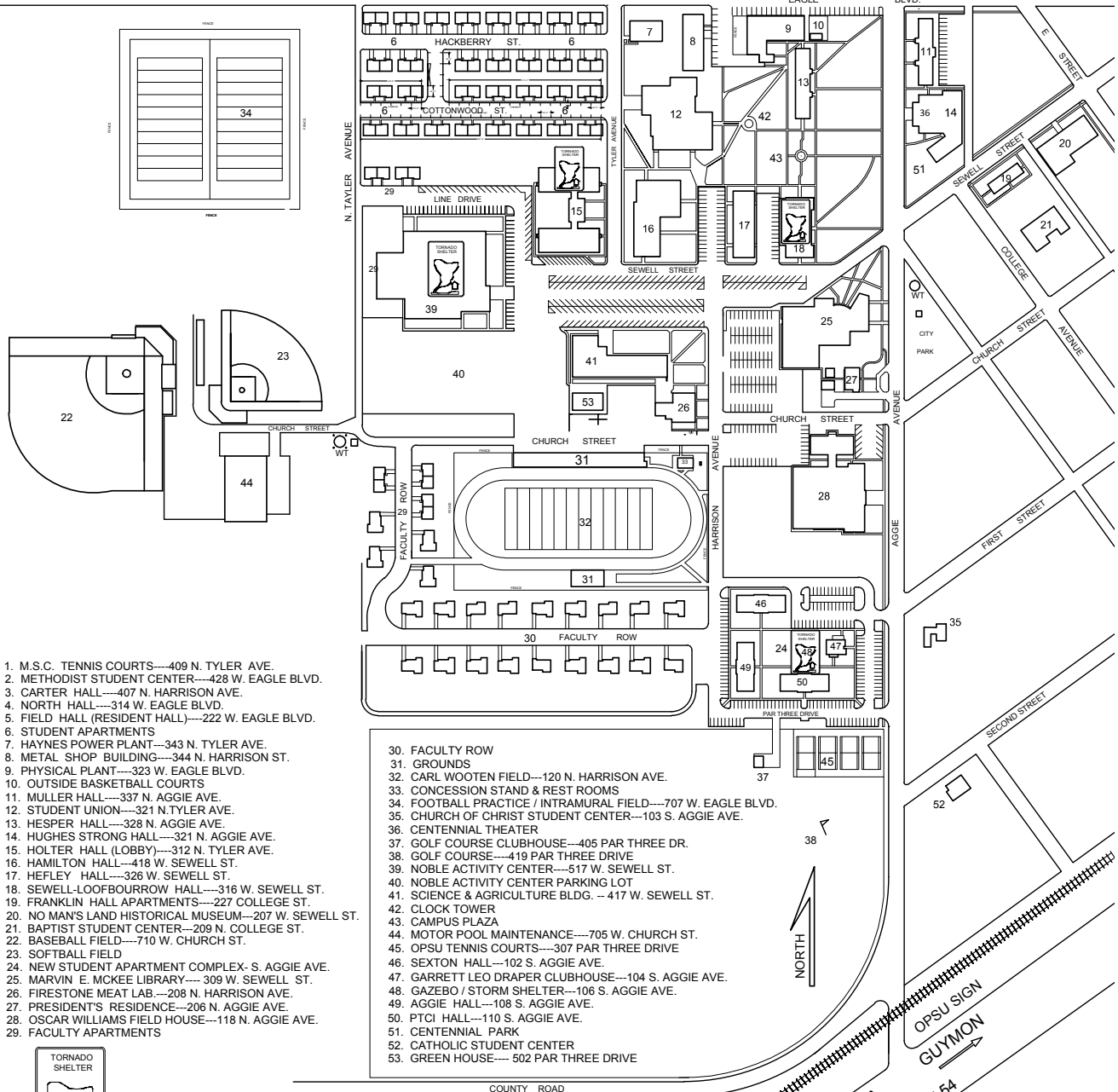
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# OKLAHOMA

## PANHANDLE STATE UNIVERSITY

### Campus Map----911 Addresses

12-09-13



#### OPSU SEVERE WEATHER SHELTERS

NOBLE CENTER---WOMEN'S LOCKERROOM "HANDICAP ACCESSIBLE SHELTER"

NEW STUDENT APARTMENT COMPLEX---GAZEBO STORM SHELTER

HOLTER HALL--- NORTH SIDE BASEMENT

SEWELL---LOOFBURROW--BASEMENT

## President's Message

### 2018/2019

Welcome to the Panhandle family!

Being the President at Oklahoma Panhandle State University is one of the greatest honors of my life. It is an honor to work with people who come to work every day always thinking of ways to help, support and create ways to make our students better. It's an honor to be a part of building brighter futures for our students, their families and our region. It's an honor to be part of an over 100 year legacy of excellence. For us, excellence is more than just a slogan, it is a way of life for our students, our faculty, our staff and our community. That's what We are Panhandle! means.

Keeping with the spirit of our mission, "Progress Through Knowledge" we strive to be a university that is always progressing forward. Our commitment to truth, hard work, respect, and humility makes us family. I believe what makes us so great is that we surround our students with faculty and staff who care just as much about the students success as they do. With alumni in all 50 states and 26 countries, we can honestly say, from here you can go anywhere. With a future so bright, all you have to do is decide on a direction, make the commitment to work hard and we will get you there. Now that you are part of our family, people here will always be on your side and our campus will always be home, no matter where you go or what you do.

I speak for all of us when I say that we are excited to come alongside you as your teachers, guides, and life-long partners in this new chapter in your life.

We are Panhandle!  
Dr. Tim Faltyn, President



# GENERAL CATALOG

## 2018-2019

### GENERAL INFORMATION

#### Affirmative Action Compliance Statement

This institution, in compliance with Title VI and Title VII of the Civil Rights Act of 1964, Title IX of the Education Amendments of 1972, Section 503 and 504 of the Rehabilitation Act of 1973, Section 402 of the Readjustment Assistance Act of 1974, Americans with Disabilities Act of 1990, and other federal laws and regulations, does not discriminate on the basis of race, color, national origin, sex, age, religion, marital status, disabilities, or status as a veteran in any of its policies, practices, or procedures. This includes, but is not limited to admission, employment, financial aid, and educational services.

#### Notice of Non-Discrimination

Oklahoma Panhandle State University does not discriminate on the basis of race, color, national origin, sex, disability, or age in its program and activities. The following persons have been designated to handle inquiries regarding the non-discrimination policies: Mike Harris, Title IX (sex), Office: Student Union Building Rm. 10, Telephone: 580-349-1362; Rene Ramon, Section 504/ADA (disabilities), Office McKee Library, Rm.107B, Telephone: 580-349-1494.

#### Accredited by

- Higher Learning Commission  
www.hlcommission.org -- (800) 621-7440
- The Council for the Accreditation of Education Preparation (CAEP) www.caepnet.org -- (202) 223-0077
- Accreditation Commission for Education in Nursing  
www.acenursing.org -- (404) 975-5000
- The Office of Educational Quality and Accountability (OEQA) www.ok.gov/oeqa/ -- (405) 522-5399

For information regarding accreditation, contact the Office of the President in Sewell Loofbourrow Hall, Room 142.

#### Members of

- American Association of Colleges for Teacher Education
- American Council on Education
- American Library Association
- Association of College and Research Libraries
- Accreditation Commission for Education in Nursing
- Oklahoma Association of Colleges for Teacher Education
- Oklahoma College Public Relations Association
- Oklahoma System of Higher Education

#### Privacy Rights

The Family Rights and Privacy Act of 1974 establishes certain rights. The following statement summarizes these privacy rights and the policy of Oklahoma Panhandle State University (OPSU).

Students of OPSU have the right to inspect and review information contained in their educational records; challenge the contents of their educational records; bring forth a hearing if the outcome of their challenge of the contents of their educational records is unsatisfactory; prevent disclosure, with certain exceptions, of personally identifiable information from their educational records; secure a copy of the institutional policy, which includes the location of all educational records; file complaints with the Office of the Vice President for Academic Affairs, concerning alleged failures of OPSU to comply with the act; file with the Office of the Registrar during the first two weeks of the fall semester written requests not to release information pertaining to them. Directory information will be released by the Office of the Registrar until receipt of a request from the student asking that this information not be released.

OPSU has declared the following information to be directory information:

- Student's name
- Local and permanent addresses
- Telephone number
- Date of birth
- Major field of study
- Weight and height of student
- Dates of attendance at OPSU
- Degrees and awards granted
- Institutional Email
- Photographs
- Academic classification  
(freshman, sophomore, junior, senior)

*To comply with federal regulations, OPSU maintains records of the formal, written student complaints filed with the offices of the President, Vice President for Academic Affairs and Student Affairs, and Dean of Student Services.*

*This catalog contains policies and procedures which were in existence as this publication went to press. The administration reserves the right to modify or amend any statement, class, or policy to reflect current Oklahoma State Board of Regents' policies, administrative regulations, budgetary constraints, or procedures, and applicable state or federal laws and regulations.*

## Oklahoma State Regents for Higher Education

Jay Helm, Chairman.....	Tulsa
Jeffrey W. Hickman.....	Fairview
Ann Holloway, Secretary .....	Ardmore
Glen D. Johnson, Chancellor .....	Oklahoma City
Andy Lester, Assistant Secretary .....	Edmond
John Massey.....	Durant
Joseph L. Parker, Jr., Vice Chairman .....	Tulsa
Toney Stricklin.....	Lawton
Michael C. Turpen .....	Oklahoma City
Ronald H. White .....	Oklahoma City

## Board of Regents for the Oklahoma Agricultural and Mechanical Colleges

Calvin J. Anthony, Chairman .....	Stillwater
Douglas E. Burns .....	Norman
Jarold Callahan.....	Yukon
Rick Davis.....	Guthrie
Joe Duke Hall.....	Elk City
Tucker Link, Vice Chairman.....	Finley
Trudy Milner .....	Tulsa
Jason Ramsey, Chief Executive Officer .....	Oklahoma City
Jim Reese .....	Nardin
Lou Watkins .....	Stillwater

## OPSU Administrative Officers

Tim Faltyn.....	President A.A., Central New Mexico Community College; B.A., M.Ed., University of Central Oklahoma; Ed.D., Oklahoma State University 2016
Julie Dinger.....	Vice President, Academic and Student Affairs B.A., M.A., Ph.D., University of Oklahoma 2017
Benny Dain, CPA.....	Vice President, Fiscal Affairs B.S., Oklahoma Panhandle State University 1990
Ryan Blanton.....	Vice President, Outreach B.A., M.A., Ph.D., University of Oklahoma 2017



# Staff

Deborah Ask.....	Director, Murphy Brown Water Quality Testing Lab B.S., Kennesaw State University 2008
Alma Avalos.....	Program Facilitator, Upward Bound B.A., Oklahoma Panhandle State University 2017
Mariah Bays.....	Administrative Assistant, Outreach 2017
Sheldon Cayton.....	Assistant Director, Technology-ITV B.B.A., Oklahoma Panhandle State University 2001
Tammy Clark .....	Assistant Registrar B.F.A., Oklahoma Panhandle State University 2016
Dana Collins.....	Director, Human Resources, Coordinator, Insurance B.B.A., Oklahoma Panhandle State University; M.L.I.S., Drexel University 2004
Aaron Coombs .....	Head Coach, Men's Basketball B.S., University of Minnesota-Morris, M.S.; Montana State University 2018
Signe Coombs .....	Head Coach, Volleyball B.A., The University of Iowa; M.A.S., Missouri Western State University 2018
Emilie Cowan.....	Coordinator, Student Life B.S., Missouri Western State University 2018
Lisa Drumhiller.....	Head Coach, Equestrian Team B.S., Tennessee Tech University; M.S. Sul Ross State University 2017
Laura Duran .....	Director, Physical Plant 2016
Victor Esparza.....	Head Coach, Women's Basketball; Assistant Director, Athletics B.S., Oklahoma Panhandle State University; M.Ed., East Central University 2016
Robert Etbauer .....	Head Coach, Rodeo 2011
Sue Etbauer .....	Program Assistant, Rodeo 2014
Lori Ferguson.....	Director, Financial Aid B.B.A., Oklahoma Panhandle State University 2009
Alyssa Freeman.....	Head Coach, Cheer B.S., Cumberland University 2018

Justine Gaskamp .....	Director, Sports Information 2012
Russell Gaskamp.....	Head Coach, Football; Assistant Director, Athletics B.A., University of Texas; M.S., Sam Houston State University 2012
Meghan Gates .....	Director, Campus Communications B.A., Metropolitan State University of Denver 2016
Amber Glass.....	Registrar; Director, Admissions B.S., University of Phoenix 2017
Sarah Green.....	Dean, Academic Resource Center B.S., Oklahoma Panhandle State University; M.Ed. Northwestern Oklahoma State University 2007
Alton “Tony” Hardman .....	Director, McKee Library B.A., Southern Utah University; M.L.S., Brigham Young University 2011
Mike Harris .....	Dean, Student Services B.S., Oklahoma State University; M.H.R., University of Oklahoma; M.Ed., Southwestern Oklahoma State University 2017
Delilah Henderson .....	Field Placement Officer; Administrative Assistant, School of Education B.B.A., Oklahoma Panhandle State University, M.B.A., University of Phoenix 2013
Howard Henderson .....	Director, Technology B.B.A., Oklahoma Panhandle State University; M.B.A., University of Texas 1990
Carol Hill .....	Director, Purchasing B.S., Friends University 2015
Amber Hollis-Fesmire .....	Director, Noble Center; Director, Intramurals B.S., Oklahoma Panhandle State University 2001
Ariana Hooks .....	Manager, OPSU Bookstore 2018
Karina Jauregui .....	Assistant Director, Admissions B.F.A., Oklahoma Panhandle State University 2016
Robby Johnson.....	Assistant Director, Physical Plant 2017
Jason LaRocque .....	Head Coach, Baseball B.A., Texas A&M University-Corpus Christi; M.S. Ottawa University 2017

Laura Leiter.....	Coordinator, Assessment B.S., New Mexico State University; M.A., University of New Mexico 2018
Denise Levine .....	Head Coach, Cross Country; Assistant Coach, Women's Basketball B.A., Oklahoma Panhandle State University 2017
Katy Levings.....	Librarian B.F.A., Oklahoma State University, B.S., University of Oklahoma, M.S., Miami University, Ph.D., University of Alaska, Fairbanks 2012
Dawn Lloyd .....	Secretary, Library B.S., Mankato State College 2007
Bonnie Maille.....	Technical Assistant, Library 2012
Gwen Martin .....	Secretary, Dean of Agriculture 1968
Elizabeth McMurphy .....	Comptroller B.B.A., Oklahoma Panhandle State University; M.B.A., West Texas A & M University 2008
Emma Montoya.....	Administrative Assistant, Athletics 2013
Danae Moore.....	Campus Communications B.S., Oklahoma Panhandle State University 2006
Teresa Mora .....	Director, Upward Bound; Hispanic Coordinator B.A., Wartburg College; M.Ed., University of Central Oklahoma 2005
Meghan Mulcahy .....	Director, Athletics; Head Coach, Softball B.A., Nicholls State University; M.S. University of North Texas 2011
Tiffany Murley .....	Accounts Payable; Bursar B.S., Oklahoma Panhandle State University 2015
Kristie Nelson .....	Administrative Assistant, Financial Aid 2017
Martin Nevarez .....	Director, High School and Community Relations A.S., Seward County Community College; B.S., Oklahoma Panhandle State University 2015
Jill Olson .....	Administrative Assistant, President's Office B.A., University of Minnesota 2004
Raelee Olson .....	Switchboard Operator B.A., Oklahoma Panhandle State University 2014

Dianna Rene Ramon .....	Director, Counseling, Testing, and Placement B.A., Oklahoma Panhandle State University; M.C.P., Northwestern Oklahoma State University 2013
Abigail Rice .....	Administrative Assistant, Academic and Student Affairs A.S., Oklahoma Panhandle State University 1994
Calandra Rose .....	Administrative Assistant, Fiscal Affairs 2010
Dillon Schoenhals .....	Specialist, Informational Technology; Director, Institutional Research B.B.A., Oklahoma Panhandle State University 2016
Joyce Short .....	Cashier 1995
Jade Singleton-Reich .....	Counselor, Admissions 2017
John Sircy .....	Manager, OPSU Farm 1988
Daniel “Danny” Smith .....	Supervisor, Residence Life B.S., Oklahoma Panhandle State University 2016
Nikki Stork .....	Clerk, Admissions 2015
Nick Tuttle .....	Webmaster B.Tech., B.B.A., Oklahoma Panhandle State University 2009
Larry Wright .....	Computer Technician B.B.A., Oklahoma Panhandle State University 1998

## College Deans

- Shawna Tucker: Agriculture, Science, and Nursing ..... Assistant Professor, Mathematics  
B.S., M.S., Southwestern Oklahoma State University  
1998
- Brad Duren: Arts and Education ..... Professor, History  
B.A., Oklahoma City University; M.A., University of Central Oklahoma; Ph.D., Oklahoma State University  
1999
- Davin Winger: Business and Technology ..... Assistant Professor, Business Administration  
B.S., M.B.A., Texas Tech University; M.A., Catholic Distance University  
2007

# Faculty

## Professors

- Curtis N. Bensch ..... Professor, Agronomy; Chair, Department of Agronomy  
B.S., Oklahoma Panhandle State University; M.S., Oklahoma State University; Ph.D., Kansas State University  
2002
- Justin K. Collins..... Professor, Biology; Chair, Department of Biology  
B.S., Oklahoma Panhandle State University; M.S., Ph.D., Oklahoma State University  
1997
- Brad L. Duren ..... Professor, History; Dean, College of Arts and Education  
B.A., Oklahoma City University; M.A., University of Central Oklahoma; Ph.D., Oklahoma State University  
1999
- Tim Faltyn..... President; Professor, Education  
A.A., Central New Mexico Community College; B.A., M.Ed., University of Central Oklahoma;  
Ed.D., Oklahoma State University  
2016
- Richard Harland..... Professor, Psychology  
B.S., M.A., West Texas A&M University; Ph.D., The University of Oklahoma Health Sciences Center  
2010
- Sandol Johnson ..... Professor, Animal Science  
B.S., M.Ag., West Texas State University; Ph.D. Oklahoma State University  
2013
- Patrick Maille..... Professor, History; Chair, Behavioral/Social Sciences; Faculty Athletic Representative  
B.A., M.A., Ph.D., Texas Tech University  
2005
- Beverly Meyer ..... Professor, Earth Science  
B.A., Bemidji State University; B.S., St. Cloud State University; M.S., Ph.D., Texas Tech University  
2001
- Nels Peterson ..... Professor, Agriculture Education  
A.S., B.S., M.S., Ph.D., North Dakota State University  
2009
- Sara Jane Richter..... Professor, English; Dean Emeritus, Interim Chair, Department of English  
B.A., Phillips University; M.A., M.A., Ph.D., Oklahoma State University  
1985

## Associate Professors

David Cole .....	Associate Professor, Behavioral Science B.A., Ph.D., Louisiana State University; M.A. University of Calgary 2012
Alton “Tony” Hardman .....	Associate Professor, Director, McKee Library B.A., Southern Utah University; M.L.S., Brigham Young University 2011
Sara Hitch.....	Associate Professor, Business Administration; Chair, Department of Business Administration B.A., Oklahoma State University; M.B.A., University of Oklahoma; Ed.D., The George Washington University 2003
Steve Martin.....	Associate Professor, Computer Information Systems; Chair, Department of Computer Information Systems B.B.A., Oklahoma Panhandle State University; M.B.A., Southwestern Oklahoma State University 1997
Brent Shoulders.....	Associate Professor, Art; Chair, Department of Art B.A., B.S., B.S., Oklahoma Panhandle State University; M.A., M.F.A., West Texas A&M University 2000
Jack Bryon Test.....	Associate Professor, Art B.A., Southwestern Oklahoma State University; M.A., West Texas A&M University 1995
Cheng-Hsien Wu.....	Associate Professor, Education B.A., National Taitung University-Taiwan, M.A., Ph.D., West Virginia University 2014

## Assistant Professors

- J. Michael Bozeman..... Assistant Professor, Criminal Justice; Director, Criminal Justice Program  
B.S., M.S., Ph.D., Sam Houston State University  
2018
- Matthew R. Carter..... Assistant Professor, Computer Information Systems; Chair, Department of Industrial Technology  
B.A., B.S., Oklahoma Panhandle State University; M.Ed., Texas Tech University  
1993
- Sarah Green..... Assistant Professor, Mathematics; Dean, Academic Resource Center  
B.S., Oklahoma Panhandle State University; M.Ed. Northwestern Oklahoma State University  
2007
- Jennifer Justice..... Assistant Professor, Communications  
B.F.A., Iowa State University; M.A., Ph.D., Southern Illinois University  
2017
- Charla Lewis ..... Assistant Professor, Instrumental Music; Director of Bands; Chair, Department of Music  
B.M., Oklahoma Panhandle State University; M.M., Emporia State University  
2012
- Jaimee McGuire ..... Assistant Professor, Nursing  
A.S., Modesto Junior College; B.S.N., Oklahoma Panhandle State University; M.S.N., Missouri State University; D.N.P.,  
Chatham University  
2013
- Gerald Mihelic ..... Assistant Professor, Education; Director, Teacher Education  
A.A.S., Mid-American Christian University; B.A., Southwestern Bible College; M.Ed., Northern Arizona University; Ed.D.  
Oral Roberts University  
2005
- Vicki Pasque, CISSP ..... Assistant Professor, Computer Information Systems  
B.B.A., Oklahoma Panhandle State University, M.S. Capitol College  
2006
- S. Tenoch Ramon ..... Assistant Professor, Biology  
B.S., Oklahoma Panhandle State University; M.S., West Texas A&M University  
2004
- Pamela Sandvig..... Assistant Professor, Nursing; Director, Nursing  
A.S., B.S.N., M.S.N., Southwest Baptist University; D.N.P., Chamberlain University  
2015
- Shawna Tucker..... Assistant Professor, Mathematics; Interim Dean, College of Agriculture, Science, and Nursing  
B.S., M.S., Southwestern Oklahoma State University  
1998
- Judy Unruh..... Assistant Professor, Nursing  
B.S.N., West Texas State University; M.S.N., University of Phoenix  
2001
- Marlen Dee Wilkins ..... Assistant Professor, Vocal Music  
B.M., M.M., Northern Arizona University; D.A., University of Northern Colorado  
2016



Davin Winger ..... Assistant Professor, Business Administration; Dean, College of Business and Technology  
B.S., M.B.A., Texas Tech University; M.A., Catholic Distance University  
2007

Shelly Worm ..... Assistant Professor, Education  
B.S., Oklahoma Panhandle State University; M.S. Adams State College  
2012

## Instructors

Michael Ask .....	Instructor, Mathematics and Physics B.S., Oklahoma Panhandle State University; M.S., Emporia State University 2014
Tito Aznar .....	Visiting Instructor, English B.A., Oklahoma Panhandle State University 2004
Julia Bird.....	Instructor, Business Administration B.B.A., Oklahoma Panhandle State University; M.B.A., Southwestern Oklahoma State University 2013
Matthew Branstine .....	Instructor, Biology A.S. Seward County Community College; B.S. Oklahoma Panhandle State University; M.Ed., Sull Ross State University 2014
Karen Goosen.....	Instructor, Business Administration B.B.A., Oklahoma Panhandle State University; M.B.A., Liberty University 2018
Robyn Harris.....	Instructor, Accounting B.S., University of Central Oklahoma; M.Ac., University of Nebraska-Omaha 2016
Hue Helms .....	Visiting Instructor, Industrial Arts B.S., Oklahoma Panhandle State University 2015
Brian Lankford.....	Instructor, Health and Physical Education; Athletic Trainer M.S., U.S. Sports Academy 2005
Jerry Martin.....	Instructor, Agriculture B.S., M.S., Ph.D., Oklahoma State University 1967
John Michael Murrell.....	Visiting Instructor, Accounting B.S., Oklahoma Panhandle State University 2015
Stacy Nordquist.....	Instructor, Health and Physical Education; Chair, Department of Health and Physical Education B.S., Oklahoma Panhandle State University; M.S., Univeristy of Wisconsin-Milwaukee 2016
Jon G. Olsen.....	Visiting Instructor, Industrial Technology B.S., Oklahoma Panhandle State University 1986
Yvonne Sangster.....	Instructor, Art B.A., Oklahoma Panhandle State University; M.A., West Texas State University 2003

- Cezanne Shannon..... Instructor, Mathematics  
A.A., Prairie State College; B.A., Governors State University; M.Ed. National Louis University  
2018
- Megan Steele..... Instructor, Nursing  
A.S., Central Community College; B.S.N., Oklahoma Panhandle State University; M.S.N. Northeastern State University  
2018
- Daren Stephens ..... Instructor, Agriculture; Director, Firestone Meats Lab  
B.S., Oklahoma Panhandle State University; M.A.B., Kansas State University  
2003
- Lucy Tan ..... Pianist; Staff Accompanist; Artist in Residence  
B.M., M.M., New England Conservatory; D.M.A., University of Colorado - Boulder  
2017
- Kimberly Tuttle..... Instructor, Computer Information Systems  
B.B.A., Oklahoma Panhandle State University; E.M.B.A., Stetson University.  
2016
- Larry Wiggins ..... Visiting Instructor, Art  
B.A., Oklahoma Panhandle State University  
2004

### ***Emeritus Faculty***

Faculty and administrators who retire from Oklahoma Panhandle State University with the rank of Associate or full Professor and who have ten or more years of service may receive the designation of “*Emeritus Faculty*.”

Jack Alexander, M.S., 1967 - 1990 .....	Professor, Agronomy
Joyce Bender, Ph.D., 1993 - 2003.....	Professor, English
David A. Bryant, Ph.D. 2003 - 2016.....	President
Jerry Butler, Ed.D., 1989 - 2007 .....	Professor, Education
Mindy M. Davis, CPA, M.P.A. 1980-2018 .....	Associate Professor, Accounting; Department Chair, Accounting
Paul David Driskill, Ed.D., 1976 - 1993.....	Professor, Education
Russell Edenborough, M.S., 1968 - 1996 .....	Dean, School of Business and Technology; Professor, Accounting
David Elder, M.F.A., 1999 - 2014.....	Professor, Art
Carroll Gribble, M.S., 1968 - 1990 .....	Associate Professor, HPER; Director, Financial Aid
Bernice Halliburton, M.S., 1966 - 1984.....	Associate Professor, English
Robert L. Griffin, Ed.D., 1980 - 1991 .....	Vice President, Academic Administration
Russell A. Guthrie, M.A., 1978-2017 .....	Professor, Speech; Faculty Contact, Humanities
Jesse R. Hankla, D.M.A., 1976 - 1997 .....	Professor, Music; Dean, School of Liberal Arts
James Hill, Ph.D., 1975 - 2000 .....	Professor, Chemistry
Larry Hough, M.S., 1972 - 2014.....	Associate Professor, Industrial Arts
Vernon L. Hopson, M.S., 1960 - 1987 .....	Associate Professor, Mathematics; Head, Dept of Mathematics and Physics
Joyce Johnson, M.S., 1984 - 1994 .....	Associate Professor, Home Economics
Harold S. Kachel, Ed.D., 1957 - 1990 .....	Professor, Industrial Technology/Education
John W. Lain, M.S., 1970 - 1980 .....	Dean, Student Affairs; Director, Financial Aid
Sandra A. Latham, M.S., 1972 - 1999 .....	Home Economics
Doris M. Looper, Ed.D., 1967 - 1997 .....	Professor, Health, Physical Education and Recreation; Head, Department of HPER
Phil Martin, Ph.D., 1970 - 2000.....	Associate Professor, Behavioral Science
Jerry J. Martin, Ph.D., 1967 - 1994....	Professor, Animal Science and Biology; Dean, School of Agriculture; Manager, Bull Test
Wayne E. Manning Ed.D., 1985 - 2016 .....	Vice President for Academic Affairs; Professor, Business Administration
Lester Miller, Ph.D., 1988 - 1995 .....	Interim Vice President for Academic Affairs; Associate Professor, Business
Diane Mathers Murphey, M.S., 1981 - 2017 .....	Vice President for Academic Affairs; Professor, CIS

Samuel C. Nelson, M.A., 1970 - 2005 ... Honorary Professor, History and Sociology; Head, Department of Behavioral Science

Raymond A. Peck, M.S., 1946 - 1982 ..... Professor, Agronomy; Head, Department of Agronomy

Gerald H. Peters, Ed.D., 1958 - 1975 ..... Professor, Psychology; Director, Counseling and Testing;  
Chairman, Division of Liberal Arts

Serafin Ramon, Ph.D., 1959 - 2001 .....Professor, Biology; Dean, School of Science, Mathematics and Nursing

Mary Ellen “Mel” Riley, 1980 - 2011 ..... Director, Financial Aid

James H. Roach, M.S., 1965 - 1987 Associate Professor, Speech; Head, Department of Speech, Communication, and English;  
Chair, Division of Liberal Arts

James R. Satterfield, Ph.D., 1980 - 1995 ....Professor, Education; Dean, School of Education; Head, Department of Education;  
Director, Teacher Education

Kurt Schaefer, Ph.D., 1965 - 1999 ..... Professor, Biology; Head, Department of Science

Emma Schultz, M.S., 1982 - 1998 ..... Associate Professor, Education

C. Evelyn Schmidt M.L.S., 1997 - 2011 ..... Associate Professor, Director, Library

Robert W. Sexton, M.S., 1955 - 1977 ..... Associate Professor, Music; Director, Bands

Loyet Shafer, Ph.D., 1998 - 2014 ..... Professor, Education

Elgy J. Smith, M.A., 1985 - 1995 .....Associate Professor, Music

R. Wayne Stewart, Ed.D., 1997-2017 .....Professor, Education; Dean, School of Education

Russell Thatcher, Ph.D., 1998 - 2014 ..... Professor, Education

Patricia Tinch, M.S., 1970 - 1997 ..... Professor, Education

Kathleen Turner, Ph.D., 1992 - 2014 ..... Professor, English; Faculty Athletic Representative

Kenneth Woodward, Ph.D., 1975 - 2000 .....Professor, Agriculture; Dean, School of Agriculture

## History, Mission, Vision, Values, and Goals

### History

OPSU was created by an act of the Oklahoma State Legislature in 1909 as Pan-Handle Agricultural Institute offering secondary agricultural education for the Panhandle area. In 1921, the legislature authorized the school to offer a two-year college curriculum, and the name was changed to Panhandle Agricultural and Mechanical College. In 1925, the State Board of Agriculture authorized upper division college courses, and in the summer of 1926, junior and senior level courses were added to the curriculum. Two additional name changes have been ordered by the legislature: in 1967, Oklahoma Panhandle State College of Agriculture and Applied Science; in 1974, Oklahoma Panhandle State University.

OPSU, a baccalaureate degree granting institution, is an accredited university by the Higher Learning Commission, a member of the American Association of Colleges for Teacher Education and the Oklahoma System of Higher Education, and is approved by the Council for the Accreditation of Educator Preparation (CAEP) and the Office of Educational Quality and Accountability (OEQA) for the preparation of elementary and secondary teachers. General governance of the university is managed by the Board of Regents for the Oklahoma Agricultural and Mechanical Colleges. The academic programs and financial support of OPSU are authorized and coordinated via the Oklahoma State Regents for Higher Education.

### Mission

Rooted in “Progress through Knowledge,” OPSU is committed to promoting excellence in the preparation of students for success in a global community.

### Vision

Oklahoma Panhandle State University, a national leader among regional universities, will empower its learners and community through the cultivation of lifelong opportunities.

### Values

- Integrity: We are held accountable to maintain ethical practices.
- Inclusion: We embrace and support our diverse cultures.
- Excellence: We seek continuous improvement opportunities.
- Service: We operate as a center for educational and cultural opportunities.
- Sustainability: We are stewards in the conservation of our resources.

### Goals

Provide excellence to all stakeholders.

- Student Learning: Through empowerment, innovation, access, and student centered support, Panhandle State will shape lifelong learners and improve student outcomes.
- Resource Optimization: Engagement, partnerships, and collaboration will empower Panhandle State to cultivate all resources responsibly.
- Graduate Production: Provide comprehensive student experience focused on promoting excellence across each student’s academic career to graduation and beyond.
- Life-Long Learning: Improve the quality of life and transform the communities we serve through engagement and partnerships.

## General Information

### The University

OPSU is accredited by the Higher Learning Commission. The University is an institutional member of the American Association of Colleges for Teacher Education and the Oklahoma System of Higher Education. It is approved by the Oklahoma State Board of Education for the preparation of elementary and secondary teachers. OPSU prides itself in adhering to the Drug-Free Work Place Act of 1988.

### Location

OPSU is located at Goodwell, Texas County, in the central part of the Oklahoma Panhandle, approximately two hundred and seventy-five miles northwest of Oklahoma City. Major airline service is available through Amarillo, Texas (120 miles south of Goodwell).

The elevation of the campus--3,306 feet above sea level--provides a healthful climate and particularly cool summers. The territory surrounding Goodwell is well known for the production of wheat, feed grains, livestock, and underground natural gas.

The University is within easy driving distance of historical and scenic sites in Oklahoma and surrounding states. The ski slopes of New Mexico and Colorado are less than a half day's drive from the campus. Water skiing and fishing spots are within easy driving distance from Goodwell. The region abounds in hunting opportunities.

### The University Year

The University year includes two semesters of sixteen weeks and a summer session of eight weeks and six weeks. Interterm sessions of two weeks in January, and May, may be scheduled.

### Grounds and Buildings

The University occupies an attractively landscaped 120-acre tract in the western part of Goodwell. Campus facilities include the following:

Aggie Annex	Anchor D Arena at Oscar Williams Fieldhouse
Anchor D Stadium at Carl Wooten Field	Apartments - Aggie Hall, PTCI Hall, Sexton Hall
Carter Hall	England Activity Center
Firestone Meat Laboratory	Hamilton Hall
Hefley Hall	Hesper Hall
Hughes-Strong Hall	Haynes Power Plant
Married Student Apartments	Metal Shop Building
Muller Hall	No Man's Land Museum
Noble Activity Center	Physical Plant Building
Residence Halls: Field Hall, Holter Hall	Science and Agriculture Building
Sewell-Loofbourrow Hall	Student Union Building
Tennis Courts	University House
Walking Trail (formally the OPSU Golf Course)	

The University also maintains houses and apartments for the use of its faculty and staff members. The University farm, composed of a 1200-acre range unit and 960-acre tract of land one mile southeast of the campus is maintained and operated as a livestock and crops laboratory. A major portion of the farm land is under irrigation with four wells on the premises.

## Library

The Marvin E. McKee Library provides print and non-print materials and the latest in technology, including electronic resources for students, faculty, and staff. Library technology capabilities include wireless service, laptops for check-out, 25 public computer terminals, Internet access, 40 electronic databases with thousands of periodicals and other reference sources, 33,000 netLibrary ebooks, and word processing terminals. Printing is free for class assignments and color printing is available. A photocopier and scanner are also available. Remote access is provided for most online resources 24 hours a day, 7 days a week. An audio scanner is available to change written text to audio format. The McKee Library online card catalog is web-based and can be accessed on any computer terminal with Internet connection at <http://opsu.library.okstate.edu>.

Open 65 hours each week during the fall and spring semesters and open 40 hours each week during the summer, the library houses an open-stacked materials collection arranged to increase accessibility for the user. The collection consists of books, periodicals, and non-print materials such as DVD's, CD-ROM, video cassette recordings, audio books on CD and cassette, and microfilm. Equipment necessary to use these materials is available in the library for use by students and may be checked out by faculty and staff. McKee Library and nine members in the Oklahoma State University A&M library system share the ExLibris Voyager integrated library automation system.

McKee Library houses a lecture and meeting room with 44 seats. Some library and student success instruction is taught in this room and university and community trainings are held here. Campus organizations are welcome to reserve this room for meetings.

As one of the eight Congressional District Review Centers for Oklahoma Public School Textbook Adoption, McKee Library provides area educators with the opportunity to examine the latest subject area materials considered for adoption by Oklahoma public school systems. The Oklahoma State Department of Education, publishers of textbook materials, and McKee Library established the center through a cooperative effort. The resulting extensive Curriculum Collection provides resource materials for instructors and students in the School of Education.

The Periodical Collection is under constant revision and includes both curriculum-oriented and recreational reading materials. Online and print indices increase the effective use of the periodicals, and equipment is available for paper duplication from online and print materials. Campus-wide and remote access to full-text periodical titles is available through online subscription databases. Internet sites from Oklahoma Department of Libraries offer EBSCOhost and First Search research tools.

The Youth Collection consists of a wide spectrum of children's and young adult books including picture books, easy reading books, intermediate level books, and crossover books, which may be appreciated by senior high school students and adults. Separate collections include Newberry Medal Books, Caldecott Medal Books, and Sequoyah Medal and Honor Books.

Interlibrary Loan (ILL) Services are available for McKee Library students, faculty, staff, and card borrowers. Through membership to Online Computer Library Center (OCLC), Docline, and other loan services, materials which are not part of the McKee Library Collection may be borrowed. McKee Library also participates in the OK Share Card, which provides access to other Oklahoma college and university libraries for OPSU students, staff, and faculty. Current Panhandle State Association of Friends and Alumni members may receive a free McKee Library card.

The Archive and Special Collections include materials about OPSU, the Oklahoma Panhandle, and the geographic and economic trade area.



## **Intercollegiate Athletic Program**

The primary purpose of the intercollegiate athletic program is to develop desirable physical, mental, and character traits in those who participate and to train athletic coaches and physical education teachers for the public schools. The athletic program is administered by faculty members of the Department of Health, Physical Education and Recreation; the Athletic Committee; and the Athletic Director.

## **Sexual Harassment**

Sexual Harassment is a form of gender discrimination and therefore, prohibited under Title IX. Sexual harassment is defined as unwelcomed sexual advances, requests for sexual favors, or other verbal or physical conduct of a sexual nature. The following are examples of types of conduct that may constitute sexual harassment: 1) Inappropriate touching, patting, or pinching, 2) Physical assault or coerced sexual activity, 3) Demands or subtle pressure for sexual favors, 4) Obscene phone calls, texts, emails or gestures. OPSU explicitly condemns sexual harassment of students, staff, and faculty. Because some members of the University community hold positions of authority that may involve the legitimate exercise of power over others, it is their responsibility to be sensitive to that power. The University is committed to providing an environment of study and work free from sexual harassment and to insure the accessibility of appropriate grievance procedures for addressing all complaints regarding sexual harassment. Incidents reported by faculty and staff should be directed to the Director of Human Resources, located in Sewell Loofbourrow, 125-G. Incidents reported by students should be directed to the Title IX Coordinator, located in Student Union Building, Room 10.

## Tuition and Fees

### Educational Costs Fall 2018

(Costs listed are those in effect at the time of publication and are subject to change annually.)

pch=per credit hour; ps=per semester; pc=per course

#### **Tuition**

Residents of Oklahoma (pch).....	\$154.00
*Non-Residents of Oklahoma (pch) .....	Additional \$185.30
International Students (pch).....	\$339.30

*\*Out-of-State tuition waivers are available to qualified students. Students who do not qualify for an Out-of-State tuition waiver will pay combined in-state and out of state tuition.*

#### **Tuition Lock Choice Information**

In 2007, the State of Oklahoma signed House Bill 2103 into law. It allows in-state students entering one of Oklahoma's 4-year colleges or universities the option to choose between the standard variable tuition rate (subject to change each fall) or a locked tuition rate that will be guaranteed to remain the same for up to four consecutive years.

Complete the Tuition Lock Form available at <http://www.opsu.edu> under the "Downloads" link at the bottom of each website page. Students who wish to remain with the standard tuition rates for each year are not required to enter any additional information. For more information, contact OPSU Vice President for Fiscal Affairs, Benny Dain at 580-349-1564 or in Sewell Loofbourrow, Room 111.

#### **Mandatory Fees**

Activity Fee (pch) .....	\$14.00
Academic Records Fee (ps) .....	\$2.00
Auxiliary Fee (pch) .....	\$3.50
Communications Fee (ps) .....	\$10.00
Cultural and Recreation Fee (pch) .....	\$1.00
Energy Fee (pch) .....	\$14.50
Facility Fee (pch) .....	\$15.50
Health Services Fee (ps) .....	\$25.00
Library Fee (pch) .....	\$4.00
Security Fee (pch) .....	\$11.00
Student Assessment Fee (pch) .....	\$3.00
Student I.D. Card and Services (ps).....	\$5.00
Student Government Fee (pch) .....	\$1.00
Student Union Fees (pch).....	\$4.00
Technology Fee (pch) .....	\$13.00
Campus Notification Fee (pch) .....	\$1.00
Campus I.D. Fee (pch) .....	\$3.00
Counseling Fee (pch) .....	\$3.50
Academic Equipment Fee (pch).....	\$3.00

#### **Special Academic Service Fees**

Student Safety, Security, and Life Fee (pch).....	\$20.00
<i>**applies to all students, excluding those classified as a Senior (having completed 90 hours or above.) at the beginning of the fall 2013 semester. At the beginning of each subsequent semester, the fee will cease to be charged to students once they've reached Senior status.</i>	
International Students Maintenance Fee--International Students only (ps).....	\$15.00
Parking Decal Fee .....	\$10.00/\$1.00
\$10.00--Initial decal; \$1.00--Each additional decal	
Replacement I.D. ....	\$10.00
Yearbook Fee (ps)--requires two \$20.00 payments to receive yearbook.....	\$20.00

### **Special Service Charges**

Audit (without credit)

Residents of Oklahoma (pch) .....	\$154.00
*Non-Residents of Oklahoma (pch) .....	Additional \$185.30
<i>*Out-of-State tuition waivers are available to qualified students. Students who do not qualify for an Out-of-State tuition waiver will pay combined in-state and out of state tuition.</i>	
ACT Residual Test Fee .....	\$50.00
CLEP Fee .....	\$95.00
Departmental Examinations (where available) (pch) .....	\$15.00
Electronic Transcript Delivery Fee .....	\$5.00
Graduation Fee .....	\$20.00

### **Academic Service Fees**

Classroom Improvement Fee (pc) .....	\$7.00
Corequisite Support Fee (pc) .....	\$100.00
Developmental Course Fee (pc) .....	\$100.00
Online Course Fee (pc) .....	\$100.00
Private Music Lessons (pch) .....	\$40.00
Textbook Rental (pch) .....	\$10.00
Textbook Purchase .....	Bookstore Price

### **Special Instruction Fees**

For supply and expendable course fees, login to the OPSU Portal:

- [www.my.opsu.edu](http://www.my.opsu.edu)
- Select Self-Service Banner under Applications
- Click the Student Tab
- Click on Student Record
- Click on Class Schedule
- Select specific term, e.g., Fall 2018 and Submit
- Search specific course, e.g., English 1213
- Click on section and see “Base Fees” for course

**Residential Housing** Costs for 2018-2019 may be obtained by contacting the Student Affairs Office at 580-349-1360 or by visiting them in the Student Union, Room 1.

**Cafeteria Plans** (ps)

*5 meal plan.....	\$811.00
10 meal plan.....	\$1481.00
15 meal plan.....	\$1579.00
20 meal plan.....	\$1701.00

\*Available only to students residing in the Student Apartments or those purchasing only a meal plan and no housing.  
**Prices advertised are those in place at the time at publication and are subject to change without notice.**

**Refunds Processing**

The refund process is submitted every Tuesday and Thursday with the exception of the 1st week of Financial Aid disbursement. During the 1st week of Financial Aid disbursement, refunds will be issued daily.

Students have the option to set up eRefund direct deposit to be deposited directly to their bank account. This can be set up in MyOnlineBilling. If a student does not set this up, there is a delay as our system sends the student a notification to their OPSU student email for a pending eRefund. If a student does not have eRefund direct deposit set up, the system allows 1 day to set this up while the refund is pending. If the student chooses not to set up an eRefund account, the system then prints a paper check. Paper checks may be picked up and signed for at the Business Office cashiering window in SL 123. The paper check process can be a 2-day delay so the eRefund account is preferable.

**Refunds: Complete Withdrawal**

There will be a 100% refund of tuition and fees through the 10th day of the term.  
There will be no refund on courses dropped or withdrawn after the 10th day of the term.

**Refunds: Dropping Individual Courses**

A refund of 100% will be made for dropping a class through the 10th class day.  
There will be no refund on courses dropped or withdrawn after the 10th day of the term.

**Refunds: Room and Board**

Room and board refunds are described in the campus housing contract.

**Student Accounts**

The student’s total bill must be paid in full by the first day of class OR the student must be enrolled in a payment plan by the first day of class. Any student account that remains unpaid at the end of the semester and is not paid within thirty (30) days may be turned over to an outside collections agency for assistance in collecting. A collection cost will be added to the amount owed by the student to cover the collection agency costs.

**Financial Clearance**

Students may be denied registration privileges and housing applications if a balance is owed the University. Those with a balance must receive financial clearance from the Comptroller or the Vice President for Fiscal Affairs. No students will be granted a diploma, academic transcript, or financial aid transcript until financial obligations to the University have been satisfied. Delinquent bills for any recognized campus organization may result in withholding a student’s transcript, diploma, or registration.

## **Living Accommodations**

### **Campus Housing for Single Students**

Rooms and meal plans are contracted by the school year. First-time entering freshmen are required to live in on-campus housing with the following exceptions:

- Those who commute from their parents'/guardians' home;
- Those who are married;
- Those who have had their twenty-first birthday by the first day of a given semester;
- Those who have their children living with them;
- Those who have been in the military service (whose DD214 indicates that they had at least 180 days of continuous, full-time military active duty).

The main objective of campus housing is to provide an atmosphere of living consistent with and conducive to academic achievement. The University believes that experience in group living is an important part of the development of the mature person and that the self-discipline inherent in living with others is wholesome.

Although the rooms are comfortably furnished, each student must provide his/her own linens, bed covers, pillows, curtains, and rugs.

All applicants for campus housing must complete and file an application with a \$20.00 non-refundable application fee. Applicants are required to pay a \$200.00 deposit.

Rooms open prior to the first day of classes. Occupants with special needs may move in prior to this time with written permission from the Student Affairs Office. The cafeteria and some campus housing may not be open during official college vacations such as fall break; Labor Day; Thanksgiving; Christmas; semester breaks; Martin Luther King, Jr. Day; spring break; Easter; Fourth of July; and Memorial Day.

All students residing in the residence halls will be required to purchase a meal ticket from the University cafeteria. One of three meal plans will be selected.

### **Campus Housing for Married Students**

Married students may rent unfurnished apartments on campus. Married student apartments are rented to the husband and wife and their natural or legally adopted children. For anyone else to live in the same apartment, occupants must have the permission of the Student Affairs Office. An additional charge per person, per month, will be made to the family renting the apartment. The Oklahoma State Agriculture and Mechanical Board of Regents establishes rent charges. The renting family will be notified of the charge at the time permission is given. For current information regarding the charges for student apartments, please contact the Student Affairs Office at 580-349-1360 or visit the office in the Student Union, Room 4.

## **Community Services and Resources**

The University contributes to the improvement of the quality of life in its service area. Some of the agencies and resources used in fulfilling this responsibility are discussed in this section.

### **The Oklahoma Panhandle Research and Extension Center**

The Oklahoma Panhandle Research and Extension Center (OPREC) is devoted specifically to the solution of agriculture problems unique to the High Plains. The work of the center is essentially a public service designed to save the farmer and rancher the expense of private experimentation in the field, range, and feedlot. The center undertakes the collection of such fundamental information as may be required for the safeguarding and efficient utilization of natural resources. Research data are used in regular classes, in short courses for farmers and ranchers, by the press, and by various farm organizations. Information is always available to the public in the form of bulletins, lectures, or replies to individual inquiries. The OPREC is a cooperative effort involving OPSU and Oklahoma State University and is an integral part of the Oklahoma Agricultural Experiment Station.

Feedlot research facilities and equipment are available for research in livestock nutrition. An emphasis is placed on developing and carrying out cooperative research projects involving the School of Agriculture, the Oklahoma Agriculture Experiment Station, area feedlots, and private agricultural industries.

### **The University Farm**

The University Farm--composed of a 30-acre plot directly west of campus, a 960-acre tract of land one mile southeast of the campus, and a 1,200-acre range unit--is maintained and operated as a livestock and crops laboratory. A portion of the farm land is under irrigation, serving a cooperative agreement with Oklahoma State University. Various grain and forage crops are produced and used to maintain livestock operations including beef cattle, swine, sheep, and horses. The production units are used extensively as hands-on laboratory units for courses in agriculture and beef cattle research including nutrition research. A modern, federally inspected meat processing unit is used as a laboratory for animal science courses and for slaughtering and processing meat animals.

New and approved practices of crop and livestock production and management are employed. Agriculture majors who accept student employment on the farm have an opportunity to acquire practical experience in the various phases of agriculture.

### **The No Man's Land Historical Museum**

The No Man's Land Historical Museum was founded in 1932 with the Panhandle Museum Club, a student organization, as its sponsor. In October 1934, the museum was formally adopted by the No Man's Land Historical Society as the official museum of the society.

The museum building belongs to the people of the High Plains, for it was made possible through their donations, augmented by appropriations of the State Legislature to the State Planning and Resources Board. The building is well-appointed and specifically designed to provide for the collection, preservation, and exhibition of materials relating to the history of the Panhandle region. It is open to the public and widely used by public school groups, individuals, and organizations.

### **Panhandle State Association of Alumni and Friends**

The Panhandle State Association of Alumni and Friends supports Panhandle State and provides a way for students, alumni, and friends to be engaged and connected to Panhandle. Graduates, students, former students, faculty and friends of OPSU are members of the association. In addition to engagement through newsletters, social media, email, reunions, homecoming, and our annual alumni weekend – the association helps with projects that improve Panhandle State. These projects include the Plainsman sign at the University entrance, the clock tower in the plaza, solarium addition to the Student Union, war memorial on the library, Noble center chairs and tables, trees on campus, a pillar at the football field gate, as well as scholarship and financial support through the Panhandle State Foundation.

### **Panhandle State Foundation**

The Panhandle State Foundation is a nonprofit corporation whose purpose and objective are to support OPSU beyond the scope provided by public revenue. The foundation makes an annual commitment to the University's general scholarship fund and administers many specific scholarship funds.

### **Continuing Education (CE)**

OPSU has a program designed to meet the needs of non-degree seeking students. Continuing Education is not limited to assisting adults but also provides workshops and short courses for children. CE provides an opportunity for individuals seeking to improve existing skills or to learn new skills. The department offers a wide variety of courses and has continued to expand. The program offers certificates of completion and has collaborated with companies for course offerings. The categories of on-campus courses have also expanded covering areas in computers, business, recreation, languages, and more. Courses are offered both during the day and evening. EMR, EMT and Paramedic training are offered through this office.

#### **For more information, please contact:**

Dr. Ryan Blanton, Vice President for Outreach  
Sewell-Loofbourrow 101  
Phone: 580-349-1550  
Email: [rblanton@opsu.edu](mailto:rblanton@opsu.edu)

### **The Student Union Building**

The Student Union houses the University cafeteria, Aggie Grille (snack bar), ballroom, bookstore, and offices for Student Affairs, Housing, Student Senate, and Student Health Services. Groups are encouraged to use the facilities of the Student Union. Reservations may be made by filling out the online request form at: <https://opsu.edu/Facilities/Request/>

### **Vocational Rehabilitation Services**

The Oklahoma Department of Rehabilitation Services works closely with the University and provides vocational rehabilitation services to qualified students with disabilities. Services are varied and individualized according to student's need. The main focus is to assist the student in preparing for employment. Additional information may be obtained directly from the Vocational Rehabilitation Office, 508 N. Roosevelt St., Guymon, OK (580-338-2043).

### **Other Services**

Communities in the High Plains area look to the University for various services. The University furnishes speakers for commencement exercises, dinner and service clubs, church meetings, and other events. All student-related activities including athletic events, musical programs, and plays are open to the public. The services of the Marvin E. McKee Library are also available to the public.

## STUDENT SERVICES

### **Student Orientation**

Freshmen students must enroll in UCSS 1111 - Student Success, during their first semester at OPSU.

### **Academic Advising**

A new student, freshman or transfer, is assigned by admissions to an official faculty advisor who assists the student with his or her course selection, helps develop a long-range academic plan for the student, and provides academic advice and support.

### **Academic Resource Center (ARC)**

Located on the west side of McKee Library, the ARC provides services that can be tailored to meet the specific needs of each individual student. The Academic Resource Center is open Monday through Friday, 8:00 a.m. to 4:30 p.m.

The Academic Resource Center provides academic support, career exploration and services, mental health counseling, peer academic coaching services, individualized tutoring, and testing/placement services to all students enrolled at Oklahoma Panhandle State University. The ARC also seeks to aid first-generation students, low-income students, students with disabilities, and students with academic or curricular deficiencies. Our mission is to maximize the academic success and persistence to graduation of all OPSU students by helping them develop awareness of the learning opportunities available to them and assisting them in their personal growth.

In support of OPSU's commitment to academic excellence, the ARC supports the development of knowledge, intellectual skills and practice, personal and social values and transformation in all students. The Academic Resource Center promotes high academic achievement and educates students about the wide variety of resources available to them to help them achieve that goal. The ARC serves all OPSU students interested in strengthening their academic performance, and our programs and services provide a variety of opportunities that help students engage more fully in their education and achieve their potential for academic success.

### **Counseling, Career Services, and Testing Center**

The Counseling, Career Services, and Testing Center is located in the McKee Library and is open Monday through Friday from 8:00 a.m. - 4:30 p.m.

### **Counseling Services**

Confidential, professional, personal, and career counseling is available for OPSU students. Individual counseling is offered for emotional problems, as they affect personal and academic goals, intellectual functioning or relationships with others. Among the variety of concerns dealt with in counseling are stress, anxiety, depression, eating disorders, substance use/abuse, interpersonal relationships, and career indecision. When necessary, referrals will be made to appropriate off-campus agencies

### **Career Services**

The Academic Resource Center provides assistance with career choices and academic major exploration. Career exploration focuses on an individual's interests, abilities, experiences, and work values in order to develop an effective career plan and select an appropriate academic major. The placement aspect provides assistance with résumé preparation, interviewing skills, and internship and graduate school searches for students anticipating graduation. The Aggie Job Board at [www.collegecentral.com/opsu](http://www.collegecentral.com/opsu) has current on- and off-campus employment openings for students and alumni.



## Testing

First-time entering freshmen must participate in the American College Testing (ACT) or Scholastic Aptitude Test (SAT) testing programs. First-time entering freshmen must participate in the American College Testing (ACT) or Scholastic Aptitude Test (SAT) testing programs. Registration Materials for those tests and test information are available in the testing center. Students who earn a score 18 or below in the areas of Mathematics, English, or Reading on the ACT must take the Accuplacer College Placement Tests (CPT) for that subject to determine course placement. The Testing Center offers many different types of exams. All exams require a valid driver's license or passport as proof of identity. To make arrangements to take any of these exams or if you have questions, please contact the Academic Resource Center at 580-349-1558.

- ACT Residual – Students who are first-time entering freshmen. Results are only accepted at OPSU
- Accuplacer – Students who score an 18 or below in a subject or subjects of the ACT have the choice to take the Accuplacer Placement Test
- CLEP – Students can obtain college credit for specific subjects through the College Level Examination Program (CLEP)
- MAT – The Miller's Analogy Test is a Graduate School entrance exam
- OGET, OSAT, and OPTE – Teacher certification exams
- GED – High school equivalency exam, 4 modules
- NREMT – National certification for emergency medical technicians
- CompTIA and Cisco – Information Technology certification exams

## OPSU Placement and Retest Policy

First-time entering students may take the Accuplacer placement test two times (the original test and one retake) before their first semester begins. The retake must be taken prior to the Friday of the first week of class. For example, if classes start on Wednesday, August 12, the retake must be completed by Friday, August 14 before 4:30pm.

Students entering a second or subsequent semester may take the placement test one time per semester in order to attempt to test out of further classes needed.

Students pay nothing to take the first test; however, each additional test is \$10.00.

## College Level Examination Program (CLEP)

Students may accelerate their academic programs by successfully completing College Level Examination Program (CLEP) examinations which are given by appointment. Students receive credit via CLEP by passing selected “Subject Examinations.” CLEP exams are given nationwide and are sent off campus for grading (with the exception of the College Composition Modular Essay which is graded on campus). CLEP exams can be purchased at [clep.collegeboard.org](http://clep.collegeboard.org). OPSU charges a \$20.00 administration fee at the time of the appointment. For more information, please contact the Academic Resource Center at 580-349-1558.

<i>CLEP Test Title</i>	<i>OPSU Course Equivalent</i>	<i>Hours Granted</i>	<i>Written ACE Scores</i>	<i>Computer Scores</i>
American Government	POLS 1013	3	47	50
American History I	HIST 1313	3	47	50
American History II	HIST 1323	3	46	50
American Literature	ENGL 3173/3183	3/3 (6 hours total granted)	46	50
Analysis and Interpretation of Literature	ENGL 2413	3	49	50
College Algebra	MATH 1513	3	46	50
College Composition Modular**	ENGL 1113	3	44	50
College Spanish	SPAN 1114	4	45	50
Information Systems and Computer Applications	CIS 1113	3	52	50
Educational Psychology*	EDUC 4313	3	47	50
English Literature	ENGL 3143/3153/3163	3/3 (6 hours total granted)	46	50
Principles of Biology I	BIOL 1304	4	46	50
General Chemistry	CHEM 1135	5	47	50
Introductory Psychology	PSYC 1113	3	47	50
Human Growth and Development*	PSYC 3213	3	45	50
Introductory Business Law	BADM 3123	3	51	50
Principles of Management	MNGT 3813	3	46	50
Introductory Accounting	ACCT 2103/2203	3/3 (6 hours total granted)	47	50
Principles of Macro-Economics	BADM/ECON 2113	3	44	50
Principles of Micro-Economics	BADM/ECON 2123	3	41	50
Principles of Marketing	MKTG 3913	3	50	50
Introductory Sociology	SOC 1113	3	47	50
Pre-Calculus	MATH 1613	3	50	50
Western Civilization I	HIST 2213	3	46	50
Western Civilization II	HIST 2223	3	47	50

\* No Testing Allowed for Professional Education

\*\* Essay portion is scored locally and must be passed separately.

Source for written ACE Scores: Guide to Educational Credit by Examination, 2000 Edition.

### **Disability Accommodation Policy**

OPSU will reasonably accommodate otherwise qualified individuals with disabilities unless such accommodation poses undue hardships, resulting in a fundamental alteration in the nature of the service, program, or activity or in undue financial or administrative burdens. The term “reasonable accommodation” is used in its general sense in this policy to apply to employees, students, and visitors. Student requests for reasonable academic accommodation (i.e. learning disability) and requests for physical accommodations (i.e. mobility, vision, hearing) are to be addressed in writing to the Director of Counseling, McKee Library, Room 107B.

Prior to the beginning of *each* semester of enrollment (by August 1 for the fall semester; January 1 for the spring semester; May 15 for the summer semester), a student must self identify as an individual with a disability. The student must request accommodations from the Director of Counseling and provide the director with appropriate documentation to substantiate the disability claim. After appropriate evaluation by the Reasonable Accommodations Committee, accommodations will be offered, and upon acceptance by the student, an agreement for such accommodation will be articulated between OPSU and the student. The Director of Counseling will then record the required accommodations in a memo to instructors as requested by the student. All documentation is confidential; therefore, any information pertaining to a student can be released only at the student’s request.

Individuals who have complaints alleging discrimination based upon disability may file those complaints with the University’s Affirmative Action Officer (Vice President for Academic Affairs, Sewell-Loofbourrow 138) in accordance with prevailing University discrimination grievance procedures.

### **Prior Learning Assessment Credit**

Students may accelerate their academic programs by successfully passing selected prior learning examinations. Currently, the University recognizes CLEP (subject exams), APP (Advanced Placement Program), ACTPEP (American College Testing Proficiency Examination Program), and departmental testing for credit by examination. Credit from prior-learning testing will be placed on the student’s transcript when 12 resident hours have been completed successfully. The number of hours allowed is dependent on the requirements of the department in which the student majors, the certification sought, and the residence requirements of the University. An equivalent course must be offered by the University for the student to receive credit by prior learning. All prior learning credits reflect a grade of “P”; no record is kept of unsuccessful attempts on prior learning examinations. Prior learning hours acquired by CLEP and departmental testing at OPSU may be used as residence hours if approved by the student’s advisor and dean of the school with oversight of the subject area.

### **College Board Advanced Placement Program (APP)**

Students scoring at a level of three or higher on the APP examination will be granted appropriate credit for courses offered at OPSU.

### **Credit for Training in Armed Forces**

Credit for military service training and experience is evaluated in terms of college credit according to the recommendations of the American Council on Education (ACE). Each military service provides a transcript type form with ACE credit hour recommendations. These forms must be obtained by the student through the applicable service agency. It is required of students utilizing VA education benefits to turn in all previous training records and transcripts to be evaluated for prior credit, whether or not prior credit is granted. See the Office of the Registrar for more information. Military credits will be entered on the student’s record once the student has completed 12 credit hours at OPSU.

### **Departmental Examinations**

Students may apply to departments where CLEP examinations are not available to challenge a course for credit. Cost for such exams is \$15.00 per semester credit hour.

### **Credit for Training at Non-Accredited Institutions**

Credit may be granted for collegiate level work transferred from schools not accredited by a regional accrediting association. Such work is granted based upon a course-by-course equivalency evaluation against courses offered at OPSU. A maximum of six semester hours in religion may be granted.

### **Health Services**

The University maintains a nurse-run Student Health Service (Student Union, Room 2). Services are available for all students. Most services are provided to students free of charge. However, OPSU charges a minimal fee for the following services:

- Pregnancy testing
- TB skin testing--offered when available
- Urinary Tract Infection Testing--Urinalysis
- Hepatitis B injections--currently referring to Texas County Health Department in Guymon, OK
- Flu shots (when available)
- Antibiotics--with physician consultation
- Glucose monitoring
- Immunizations for travel--currently referring to Texas County Health Department in Guymon, OK
- STD Referrals--no fee

The clinic is used for minor emergency care with referral to a physician of the student's choice or the consulting college physician. Major emergency care will be referred to Memorial Hospital of Texas County in Guymon, OK. The Goodwell Ambulance Service will transport major emergencies to the hospital.

OPSU hopes to serve students with a minimum of lost time from classes and to cut students' expenses resulting from illness and injury.

### **University Bookstore--Unique to Oklahoma**

OPSU students pay a per credit hour fee which covers the rental of many basic textbooks. Students are responsible for the care of the books and for the books' return at the close of each semester. If textbooks are damaged or not returned by the last day of the semester, the student will be charged the full replacement cost for the books. Some specialized textbooks are not available by rental and must be purchased by the student. Panhandle apparel, supplies, study aids, laboratory manuals, gifts, cards, and holiday items are available for purchase in the store as well.

## Financial Aid to Students

The cost of a college education is a heavy financial burden on most families; therefore, the University makes a concerted effort to assist in meeting the financial needs of its students in order that they might receive the education they desire. OPSU participates in the following federal and state student financial aid programs: Federal Pell Grant, Federal Supplemental Education Opportunity Grant, William D. Ford Federal Direct Loan Program, Federal Plus Loan, Federal College Work Study, and Oklahoma Tuition Aid Grant.

The information contained in this General Catalog should assist students in their financial planning for attending OPSU. Students and/or their parents are invited to discuss any questions or concerns at the Office of Financial Aid, Sewell- Loofbourrow Hall 106 and 115.

Student financial aid generally consists of scholarships, grants, loans, and jobs made available to students by the University. The basic philosophy governing student financial aid is based upon the principles and practices listed below.

- The purpose of student financial aid is to provide monetary support to students.
- Parents are expected to contribute to their children's education according to their means, taking into account their incomes, assets, number of dependents, and other relevant information. Students themselves are expected to contribute from their own assets and earnings, including appropriate borrowing against future income.
- Student financial aid is offered to an applicant only after determining that the resources of the family and/or student are insufficient to meet the student's educational expenses. The amount of assistance offered will not exceed the amount needed to meet the difference between the student's total educational expenses and the student's family's resources.
- The amount and type of self-help expected from the student relate to the circumstances of the individual. The largest amount of grant funds is provided to those students with the greatest expenses and the least ability to pay.
- The amount of student financial assistance awarded to a student reflects the student's family's economic circumstances; therefore, the amount of assistance provided to a student will not be made public. OPSU complies with the Family Rights and Privacy Act.

### Statement of Ethical Principles

The primary goal of the OPSU financial aid professional is to help students achieve their educational potential. The financial aid professional shall

1. be committed to removing financial barriers for those who wish to pursue postsecondary education;
2. make every effort to assist students with financial need;
3. be aware of the issues affecting students and advocate their interests at the institutional, state, and federal levels;
4. support efforts to encourage students as early as the elementary grades to aspire to and plan for education beyond high school.
5. educate students and families through quality consumer information;
6. respect the dignity and protect the privacy of students and ensure the confidentiality of student records and personal circumstances;
7. ensure equity by applying all need analysis formulas consistently across the institution's full population of student financial aid applicants;

8. provide services that do not discriminate on the basis of race, gender, sexual orientation, ethnicity, religion, disability, age or economic status;
9. commit to the highest level of ethical behavior and refrain from conflict of interest or the perception thereof; and
10. maintain the highest level of professionalism.

### **Financial Aid Code of Conduct**

A financial aid professional shall:

1. refrain from taking any action for his or her personal benefit;
2. refrain from taking any action he or she believes is contrary to law, regulation or the best interests of the students and parents he or she serves;
3. ensure that the information he or she provides is accurate, unbiased, and does not reflect any preference arising from actual or potential personal gain;
4. be objective in making decisions and advising his or her institution regarding relationships with any entity involved in any aspect of student financial aid; and
5. refrain from soliciting or accepting anything of other than nominal value from any entity (other than an institution of higher education or a government entity such as the U.S. Department of Education) involved in the making, holding, consolidating or processing of any student loans, including anything of value (including reimbursement of expenses) for serving on an advisory body or as part of a training activity of or sponsored by any such entity.

### **Financial Aid Satisfactory Academic Progress Policy--Title IV Programs**

Federal Regulations (CFR 668.16) require that a student maintain satisfactory academic progress in the course of study being pursued, according to the standards and practices of the institution in which the student is enrolled, in order to receive aid under the Higher Education Act (Title IV). These programs at OPSU include Federal Pell Grant, Federal Supplemental Educational Opportunity Grant, Federal Stafford Loan Program, Federal PLUS, Federal College Work Study, and Oklahoma Tuition Aid Grants.

#### **A. Qualitative and Quantitative Requirements**

Both qualitative and quantitative standards for satisfactory progress shall be applied uniformly to each student whether or not the student has previously participated in the Title IV aid programs.

Graduation/Retention grade point average and hours attempted shall determine student eligibility to participate in the Title IV programs. In order to satisfy both qualitative and quantitative requirements, all students must fulfill minimum standards as follows.

Grade Point Average: (Graduation/Retention)

00-30 hours attempted	minimum CGPA	1.7
31 or more hours attempted	minimum CGPA	2.0

Completion Rate:

Students must complete 75% of all hours attempted

Any student receiving Title IV assistance who during any semester completes less than one half of his/her enrolled hours will be automatically suspended from participation in the Title IV programs for the subsequent semester and until such time as the student regains eligibility.

For financial aid purposes, grades of "F" (Fail), "W" (Withdrawal), "AU" (Audit), "AW" (Administrative Withdrawal), "I" (Incomplete), "NP" (No Pass), and "U" (Unsatisfactory) shall be considered hours attempted.

However, these grades are not considered hours satisfactorily completed.

A student may repeat a course any number of times. A maximum of four repeated courses, but not to exceed 18 semester hours in which the grade of “F” was received, may be excluded from retention/graduation GPA calculations. In this case, only the second grade received in the course is used in the calculation of the grade point average of that student for graduation/retention GPA. The student must request this action, either verbally or in writing, through the office of the Registrar. Repeated courses are in addition to the academic reprieve policy. If a student repeats an individual course more than once, all grades earned, with the exception of those exempted, are used to calculate the retention/graduation GPA. Students repeating courses above the first four courses or 18 credit hours of “F” repeated may do so with the original grades and repeat averaged.

All students participating in the Title IV programs will be evaluated at the end of each semester, including summer, to determine if satisfactory academic progress is being maintained.

If at the end of the first semester of attendance a student fails to meet minimum acceptable standards, as listed above, s(he) will be placed on financial aid warning for the next semester, during which time the student may continue to receive financial aid.

If at the end of the warning semester, the student fails to meet minimum criteria, s(he) will be required to meet with the financial aid appeal committee.

The appeal must be in writing and addressed to the Director of Financial Aid explaining in detail the extenuating circumstances. The letter must include a copy of the student’s degree plan as set up by his/her advisor. This documentation must be received by the Office of Financial Aid no later than 7 days prior to the first day of classes of the next semester. Supporting documentation may be submitted with the letter (doctor’s statement, hospital bill, letter from parents advisors or instructors in support of the appeal, attendance reports, etc.).

Students will be given a day and time to attend a meeting of the Financial Aid Committee. Attendance at the appeal meeting is recommended and the appeal will be decided based on the information presented in the appeal letter. The student will be notified, in writing, of the Financial Aid Committee’s decision. If the appeal is approved, the student must follow the degree plan each semester until eligibility is reestablished. Failure to follow the degree plan or meet minimum criteria will result in suspension of financial aid.

A student may re-establish eligibility to participate in the Title IV programs by completing sufficient hours to meet both qualitative and quantitative standards as listed above.

Students enrolled in a two (2) year program may ATTEMPT 80 semester hours to complete the program.

Students enrolled in a four (4) year degree program may ATTEMPT 160 semester hours to complete the program.

Students who have changed majors or who are attempting to complete 2 majors or degrees must be careful not to pass the 160 attempted hour limit.

Students reaching the maximum attempted hours in their programs of study without completing the program will be suspended from participation in the Title IV programs. These students must appeal to the Financial Aid Committee by submitting a letter explaining the need for additional hours (change of major, pursuit of a second degree, etc.) and a graduation evaluation signed by the Registrar. Students receiving additional financial aid will be monitored each semester.

The student will be held responsible for knowing his/her eligibility status at the end of each semester.

## **Financial Need Determination**

The federal government requires each postsecondary institution that participates in student financial aid programs to utilize an approved needs analysis system to determine the needs of its students. OPSU utilizes the Federal Student Aid Report to determine resources available to students.

The purpose of a needs analysis system is to establish the amount of student financial aid needed by the student based upon consistent and standardized criteria. Financial need is the difference between what the student and/or family is expected to contribute and the cost of attendance.

Among the factors that determine the family's expected contribution include (1) annual adjusted gross income as determined by the Internal Revenue Service, (2) savings, stocks, and bonds, (3) assets in the form of a business, farm, or other real property, (4) nontaxable income and benefits, (5) the student's savings and assets, and (6) the size of the household and the number of children in college. The costs generally considered in the cost of attendance are (1) tuition and fees, (2) room and board, (3) books and supplies, (4) transportation, and (5) personal expenses.

## **Student Financial Aid Programs**

The following section briefly describes the student financial aid programs available at OPSU. In order to qualify for these programs, with the exception of certain institutionally-based programs, a student must then state financial need, be a US citizen (or have permanent resident status), show academic promise and progress, enroll in an eligible program of study, seek a degree, not owe a refund to any university on any previous grants received, and not be in default on any educational loan previously received to attend any institution of higher learning. For maximum student financial aid consideration, students are encouraged to apply for aid immediately after October 1 of the year preceding enrollment.

### **Federal Pell Grant**

The Federal Pell Grant makes funds available to eligible students attending approved colleges, community/junior colleges, vocational schools, technical institutes, and other post-secondary institutions.

In any academic year, students may apply for a Federal Pell Grant if the student is an undergraduate enrolled in an approved program of study which is 30 weeks in length or longer. To apply for a Federal Pell Grant, students should note the information under the heading "Financial Aid Determination" stated earlier. Students may obtain applications from high school counselors, any college or university, Talent Search, Upward Bound Projects, public libraries, the U.S. Department of Education, or online at [www.fafsa.ed.gov](http://www.fafsa.ed.gov).

A student must make satisfactory progress, as outlined in this catalog under the heading "Financial Aid Satisfactory Academic Progress Policy" to continue receiving a Pell Grant.

### **Federal Supplemental Educational Opportunity Grant (FESOG)**

OPSU has a limited number of FESOG awards made available by the Higher Education Act of 1972. FESOG will be awarded to a student only if it is determined that such a student has exceptional financial need and would be unable to attend OPSU without the grant. The student must also show evidence of academic promise, be a US citizen and be accepted as an undergraduate student. To receive an award, a student must make satisfactory progress as outlined in this catalog under the heading "Financial Aid Satisfactory Academic Progress Policy."

### **Oklahoma Tuition Aid Grant (OTAG)**

OTAG is available to legal Oklahoma residents with a demonstrated financial need who are enrolled as at least half-time students pursuing a degree. The maximum OTAG award is 75% of required enrollment fees. When an Oklahoma student applies for the Pell Grant, his/her data containing needs analysis is forwarded to the Oklahoma State Regents for Higher Education.



**Oklahoma Tuition Aid Grant (OTAG)**

OTAG is available to legal Oklahoma residents with a demonstrated financial need who are enrolled as at least half-time students pursuing a degree. The maximum OTAG award is 75% of required enrollment fees. When an Oklahoma student applies for the Pell Grant, his/her data containing needs analysis is forwarded to the Oklahoma State Regents for Higher Education.

**William D. Ford Federal Direct Loan Program**

Student loans provide a student with the opportunity to borrow against future earnings. A student who borrows money for his/her education must, as with any other type loan, repay that money at a specific time in the future. Information concerning student loans may be obtained from the Office of Financial Aid, Sewell-Loofbourrow 106. As with all federal programs administered by the Office of Financial Aid, a student must apply for federal financial aid as described under the heading “Financial Aid Determination,” stated earlier, and make satisfactory progress as outlined under the heading “Financial Aid Satisfactory Academic Progress Policy” to receive an award.

**Federal PLUS Loan**

Federal PLUS loans provide additional funds for educational expenses. These loans are available to parents of dependent undergraduate students. The borrower must begin repayment within 60 days of the date of disbursement. Federal PLUS loan applications may be obtained in the Office of Financial Aid.

**Federal College Work-Study Program (FCWS)**

This program is designed to provide part-time employment opportunities for students from low-income families. The work-study program may be combined with other forms of financial assistance such as Stafford, PLUS loans, grants, or scholarships from the university to enable the student to meet his/her educational expenses. In order to participate in the FCWS program, a student must have a demonstrated need and be enrolled in an approved program. Priority for employment is given to those students with the greatest financial need.

## **Student Employment**

Student employment is provided, as funds are available, to students who wish to work part-time while pursuing their educations at OPSU. To qualify for such employment, a student must show grades which are average or above, provide recommendations from persons who know his/her character and personal worthiness, and show sufficient competence to do well in the work that the University has available. Students interested in employment may obtain an application from the Office of Financial Aid where notices of job vacancies are posted.

## **Additional Sources of Financial Assistance**

### **Bureau of Indian Affairs**

This program enables Native American students to attend college. Students must contact the Bureau of Indian Affairs or tribal agency of their nation for details.

### **Veterans Administration Benefits**

This program assists veterans and/or their dependents in obtaining a post-secondary education. Students should contact the Department of Veterans Affairs, 125 South Main Street, Muskogee, OK 74401 or call 1-800-827-1000 in Oklahoma or visit [www.gibill.va.gov](http://www.gibill.va.gov).

### **Vocational Rehabilitation Grants**

The Department of Human Services, through the Division of Vocational Rehabilitation, offers payment of tuition and other services to in-state students who have certain physical or mental handicaps, provided the vocational objective selected by the student has been approved by a Vocational Rehabilitation Counselor. Application for Vocational Rehabilitation may be made through the Department of Human Services, P.O. Box 25352, Oklahoma City, OK 73125 or at a local vocational rehabilitation office.

## **Return of Title IV Aid**

Included in the Higher Education Amendments of 1998 are provisions governing what must happen when a student who receives federal financial aid withdraws from school in any semester. These new policies became effective Fall 2000. All Title IV Aid recipients fall under the same policy.

“Withdrawal” means to stop attending or completing all regularly scheduled classes and class assignments during an enrollment period. Withdrawal does not mean dropping individual classes but attending others.

“Withdrawal Date” means the student’s last date of attendance at a documented, academically-related activity or the midpoint of the semester for a student who leaves without notifying the institution.

The portion of Federal Title IV funds (grants/loans) a student is allowed to receive is calculated on a percentage basis by comparing the total number of days in the semester to the number of days the student completed before withdrawing.

For example, if the student completes 30% of the semester, the student earns 30% of the financial aid originally awarded for the semester. This means that 70% of the scheduled financial aid award remains unearned and must be returned to the federal government within 45 days after determination of the withdrawal.

If a student withdraws after his/her financial aid file is ready to pay but before the disbursement has been made, a post withdrawal calculation will be processed to determine if the university must make a post withdrawal disbursement of federal funds. This disbursement will be made within 30 days of the determination of the student’s withdrawal.

Students who remain enrolled through at least 60% of the semester are considered to have earned 100% of the aid received and will not have to repay Federal Title IV grant funds.

Both OPSU and the student are responsible for returning unearned Title IV funds. The university's portion of unearned funds to be returned is equal to the lesser of the entire amount of the unearned funds or the total tuition and fee charges multiplied by the percentage of unearned funds. The student is responsible for returning the amount of unearned funds not returned by the University. As a result, the student could owe OPSU charges that were originally paid at the time of disbursement. It could also mean that the student may be required to return funds released for personal expenses.

Funds will be returned to the Title IV programs (not to the recipients) in the following order:

- Unsubsidized Stafford Loan
- Subsidized Stafford Loan
- PLUS
- Pell Grant
- FSEOG
- Other Title IV programs

No additional application for federal student aid will be considered by OPSU until all repayment is made or until defaulted student loans are satisfactorily resolved.

### **Student Rights and Responsibilities**

Students have the right to know the following: financial aid programs available; deadline for submitting applications for each financial aid program; how financial need was determined; what resources were considered in the calculation of the need; how most of the financial need as determined has been met; what portion is in the form of grants; how the school determines whether students make satisfactory progress; and what happens if students do not make satisfactory progress. Students have the responsibility to complete forms accurately and submit them on time; provide correct information; return all additional documentation corrected or new information requested to the Office of Financial Aid or to the agency to which the applications were submitted; read and understand all forms they sign and keep copies of them; perform the work that is agreed upon accepting employment; repay all loans in accordance with the repayment schedule; and inform the Office of Financial Aid of any changes in enrollment or address.

## Scholarships and Awards

### Academic Assistance

Students may apply for scholarship consideration when they apply for admission to OPSU. To receive a scholarship, students must meet the appropriate requirements and be enrolled as a full-time student at OPSU for the semester the scholarship is used. Awards are competitive and subject to available funding. Although the scholarship application deadline is typically February 15 of each year, students who apply early may receive increased favorable consideration. Academic scholarships are available through the deans of each school. Application for academic scholarships are part of the OPSU admission application and you must have applied to OPSU to be eligible. Please go to [www.opsu.edu](http://www.opsu.edu) to apply for admission and academic scholarships.

Categories of scholarships are based on administration, student status, and academic criteria:

#### 1. Regents' Academic Scholar Program

\$4,000.00 plus a full-tuition waiver and room scholarship (annual) for up to 8 semesters, no application deadline, but distributed in October. Must maintain a 3.25 cumulative GPA while in the program. Must remain a full-time student (12 hours) and earn 24 credit hours per year. Residents of Oklahoma automatically qualify by scoring within the 99.5 to 100.0 percentile levels on the ACT or SAT as administered by the State of Oklahoma (Sum of scores should be equal or better than 134 of the ACT skill area scores and the SAT required score should be a total sum score of the critical reading and math skill areas of 1570). Students may also qualify for this scholarship as a National Merit Scholar, National Merit Finalist, or United States Presidential Scholar. This scholarship may be transferred to another state institution.

#### 2. Regents' Regional Baccalaureate Scholarship

\$3,000.00 plus a full-tuition waiver and room scholarship (annual) for up to 8 semesters. Application deadline is March 1. Must maintain a 3.25 cumulative GPA while in the program. Must remain a full-time student (12 hours) and earn 24 credit hours per year. Must be a resident of Oklahoma and have an ACT composite score of at least 30 and an exceptional GPA and class rank. You can also qualify by being a National Merit Semifinalist or Commended Student. Scholarship must be used at nominating institution; therefore, the scholarship is not transferable.

#### 3. \*Presidential Award: (renewable up to 4 years)

\$2,000 per year, up to \$8,000 if renewal qualifications are met. Must be a valedictorian or have an ACT composite score of 26 or above or a minimum SAT composite score of 1170. Must be a first-time Freshman. Renewable criteria: must maintain a GPA of 3.25 and complete 30 hours each year.

#### 4. \*Outstanding Student Award (renewable up to 4 years)

\$1,000 per year, up to \$4,000 if renewal qualifications are met. Must be a salutatorian or have an ACT composite score of 24 or above or a minimum SAT composite score of 1080. Must be a first-time Freshman or a transfer student with a minimum GPA of 3.0. Renewable criteria: must maintain a GPA of 3.0 and complete 30 hours each year.

#### 5. \*Educational Achievement Award (renewable up to 4 years)

\$500 per year, up to \$2,000 if renewal qualifications are met. Must have an ACT composite score between 17 and 23 or a minimum SAT composite score of 830. Must be a first-time Freshman or a transfer student with a minimum GPA of 2.75. Renewable criteria: must maintain a GPA of 2.75 and complete 24 hours each year.

**(continued on next page)**

*\*Will be applied to tuition, up to 30 hours.*

**6. \*Phi Theta Kappa (PTK) (renewable up to 4 years)**

\$1,000 per year, up to \$2,000 if renewal qualifications are met. Must be a transfer student from a 2-year college with active PTK chapters. Must have a minimum GPA of 3.0 with a minimum of 30 semester hours transferred. Must also have proof of membership in PTK. Renewable criteria: must complete 30 hours per year, have full-time status, and maintain a cumulative GPA of 3.0.

*\*Will be applied to tuition, up to 30 hours.*

**Activity Scholarships**

A limited number of scholarships is offered for participation in various activities. Listed below are the activities and the individuals to contact concerning qualifications and applications.

OPSU Athletics - Athletic Coach for individual sports: football, rodeo, baseball, cross country, basketball, golf, softball, and volleyball.

OPSU Music - Music Studies Coordinator, Director of Ensembles: athletic band, concert band, jazz band, mariachi OPSU, choir, and chamber singers.

OPSU Ambassadors—Director of High School and Community Relations

OPSU Cheerleaders—Cheerleading sponsor

OPSU Agriculture—Judging Team sponsor: meat judging and livestock judging

## HONORS

### **J.R.P. Sewell Scholarship and Achievement Award**

J.R.P. Sewell Scholarship and Achievement Award was established in 1949 in memory of the late J.R.P. Sewell, who was instrumental in the establishment of OPSU. The award is presented at commencement to the graduating senior who ranks highest in scholarship, leadership, and citizenship. To be eligible for the award, a senior must have completed all of his/her college work at OPSU.

### **President's Honor Roll**

The President's Honor Roll, listed each semester, includes all students who carry 12 hours or more (excluding developmental and activity course hours) and who have a 4.0 GPA with no incomplete ("I") grades.

### **Dean's Honor Roll**

The Dean's Honor Roll, listed each semester, includes all students who carry 12 hours or more (excluding developmental and activity course hours) and have a 3.5 or higher GPA with no incomplete ("I") grades or "F's."

## Student Organizations

### Student Association

Every student enrolled at OPSU is a member of the Student Association. The Student Association supports student enterprises and organizations and directs student activities.

### Intramural Sports Program

Under the supervision of the Director of Intramurals, the Panhandle State intramural program provides recreational activities such as basketball, dodgeball, volleyball, and individual sporting opportunities for participation in physical activities. Participation is voluntary and open to faculty, staff and students enrolled in the University. The objective of the program is to offer everyone connected with the University the opportunity to participate in recreational activities by providing both teams and individuals stress-free activity, fair play, and competition.

### Student Societies and Organizations

Opportunities for participation in a variety of extracurricular activities are offered to OPSU students through the following organizations:

Aggie Cheerleading	Phi Beta Lambda (Business)
Aggie Peers	<i>The Plainsman</i> (Yearbook)
Alpha Chi (Honors)	Psychology Club
Alpha Zeta (Agriculture Honors)	Rodeo Team/Club
Association of Information Technology Professionals (AITP)	Senior Livestock Judging Team
Athletic Band	Student Ambassadors
Baptist Student Union	Student Athlete Advisory Council (SAAC)
Block and Bridle	Student Nurse Association
Chamber Singers	Student Oklahoma Education Association
Chi Alpha Sigma (Athletic Honors)	(SOEA)
Christian Student Center (Church of Christ)	Technology Student Association
The Collegian (Newspaper)	Women in Agriculture
Collegiate FFA	
Concert Band	
Concert Choir	
Crops Judging Team	
Drama Club	
Equine Club	
Fellowship of Christian Athletes (FCA)	
Hispanic American Leadership Organization (HALO)	
History Club	
International Student Association	
Images (Art)	
Junior Livestock Judging Team	
Methodist Student Center	
National Association for Music Education (NAFME)	
Oklahoma Intercollegiate Legislature	
OPSU Student Senate	
Panhandle Archers	

## General Admissions and Retention Regulations

### ADMISSION REGULATIONS

#### PART I: REGULAR ADMISSION

OPSU offers Baccalaureate of Arts, Baccalaureate of Science, Associate of Arts, Associate of Science, and Associate of Applied Science degrees. Admission standards for each degree type are shown in this section. Students must meet both high school curricular and performance standards as follows.

#### Baccalaureate Programs

**High school curricular requirements for regular admission of first-time entering students** (students with six or fewer attempted semester hours):

Students must have completed the following high school curricular requirements to be eligible for admission to baccalaureate programs.

Oklahoma State Regents' 15 Unit High School Core Curricular Requirements:

- **English:** four units (grammar, composition, literature)
- **Laboratory Science:** three units (biology, chemistry, physics, or any lab science certified by the school district; general science with or without a lab may not be used to meet this requirement.)
- **Mathematics:** three units (from algebra I, algebra II, geometry, trigonometry, math analysis, calculus)
- **History and Citizenship Skills:** three units (including one unit of American History) and two additional units from subjects of government, geography, economics, non-western culture. Examples -- *Courses that do qualify:* American government, civics, eastern geography, economics, multicultural history (with non-west geography content), western world geography, world history. *Courses that do not qualify:* aerospace science, American documents, American issues, contemporary social issues, introduction to law, military history, psychology, sociology, 20th century legal issues.
- **Other:** two units (from any of the subjects listed above or selected from the following: computer science and foreign language.)

High school performance criteria for regular admission of first-time entering students:

An individual must be a graduate of a high school accredited by the appropriate regional association or by an appropriate accrediting agency of his/her home state or must have achieved a high school equivalency certificate based on the General Education Development tests (GED); must participate in the American College Testing (ACT) program or a similar acceptable battery of tests; and must meet the following high school performance standards to be eligible for admission to baccalaureate programs. Students utilizing Scholastic Aptitude Test (SAT) scores will have their scores converted to ACT equivalents. Oklahoma ACT and national SAT data will be used. A GED recipient's high school class must have graduated.

- ACT/SAT or Standard Required Tests Scores - 20/940
- High School Performance or High School GPA\* in Required Core Courses - 2.7
- Class Rank and GPA\* - Top 50% and 2.7

\*GPA will be defined annually to correspond to the rank in class.



Students will be placed in classes according to test scores. An ACT score of 19 or higher will place the student in college level courses without the supplemental course requirements. A score of 18 or lower will place the student in the PLUS equivalency course, e.g. ENGL1115, Freshman English I PLUS. A student with deficiencies may enroll in an associate degree program, but not in a baccalaureate degree program.

### **Associate in Arts/Associate of Science Programs**

**High school curricular requirements for regular admission of first-time entering students (students with six or fewer attempted semester hours):**

Students who meet the high school curricular requirements described for the baccalaureate programs are eligible to enter the Associate in Arts/Associate in Science program. Students who lack high school curricular requirements are admissible into Associate in Science or Associate in Arts programs but must remove the deficiencies at the earliest possible time within the first 24 hours attempted. In addition, students must remove curricular deficiencies in a discipline area before taking collegiate level work in that discipline.

Students who have not completed curricular requirements in high school may remove curricular deficiencies by successfully completing developmental/remedial courses or by successfully completing appropriate examinations or by making an ACT score of 19 or above in the appropriate area. Students may not count developmental/remedial courses toward satisfaction of degree program requirements.

**High school performance criteria for regular admission of first-time entering students:**

An individual must be a graduate of a high school accredited by the appropriate regional association or by an appropriate accrediting agency of his/her home state or must have achieved a high school equivalency certificate based on the GED, participate in the ACT program or a similar acceptable battery of tests and meet the high school performance standards listed under the baccalaureate program to be eligible for admission to Associate in Arts and Associate in Science programs. A GED recipient's high school class must have graduated.

### **Associate in Applied Science Programs**

**High school curricular requirements for regular admission of first-time-entering students with six or fewer attempted semester hours):**

Students who meet the high school curricular requirements described for the baccalaureate program are eligible to enter the Associate in Applied Science programs. Students lacking high school curricular requirements may be admitted to Associate in Applied Science programs but must remove curricular deficiencies in a discipline area before taking collegiate-level work in that discipline.

Students who have not completed curricular requirements in high school may remove curricular deficiencies either by successfully completing developmental/remedial courses, by successfully completing appropriate examinations, or by scoring an ACT score of 19 or above in the appropriate area. Students may not count developmental/remedial courses toward satisfaction of degree program requirements.

### **High school performance criteria for regular admission of first-time entering students:**

An individual must be a graduate of a high school accredited by the appropriate regional association or by an appropriate accrediting agency of his/her home state, have achieved a high school equivalency certificate based on the General Education Development tests (GED), and have participated in the American College Testing program (ACT) or a similar acceptable battery of tests to be eligible for admission to Associate in Applied Science programs. A GED recipient's high school class must have graduated.

A student wishing to transfer from an Associate in Applied Science Program into an Associate in Science, Associate in Arts, or a bachelor degree program must formally apply and must have removed all existing curricular and/or academic deficiencies.

## **PART II: Special Admission**

### **• Special Non-Degree Seeking Student**

Students who wish to register in courses, but not pursue a degree, may register in no more than nine credit hours without submitting academic credentials or meeting the academic curricular or performance requirements. Retention standards will be enforced. Once a student has completed the designated number of hours, should she/he wish to register in additional course work, she/he is required to meet OPSU's formal admission or transfer criteria.

The president or his/her designee may allow non-degree seeking students to exceed this initial nine credit-hour limit on an individual student basis. Such exceptions may be made for non-degree seeking students only who meet the retention standards.

### **• Alternative Admission Category**

Alternative admission policy provides for admission of up to 50 students.

Students entering under the alternative admission category will be interviewed by the Admissions and Retention Committee. The committee will seek to identify those students for alternative admission who (1) have a reasonable chance of academic success, (2) have unusual talent in art, drama, music, sports, and the like, or (3) are educationally or economically disadvantaged and show promise of being able to succeed in a program or curriculum being offered at OPSU.

The Alternative Admission Category will be used equitably and will proportionally represent different types of students of unusual talent or abilities who do not otherwise meet established admission standards. Waivers will not be awarded in significant proportion for scholarship athletes.

### **• Adult Admission Category**

The adult admission allows adults who have been out of the educational system for a period of time to continue their educations without undue restrictions. The following two categories of adults are considered for admission:

- A. Any applicant who is not a high school graduate, but whose high school class has graduated and has participated in the ACT program or similar battery of placement tests.
- B. Applicants who are 21 years of age or older or on active military duty.

Students admitted under the adult admission category must meet the following conditions for admission and continued enrollment:

- A. Show ability to benefit from higher education by successfully completing an appropriate examination. Students who have not participated in the ACT program or the SAT must schedule an appointment to take an approved examination. To schedule an examination, contact the Admissions Office (SL 128).
- B. Receive academic counseling and advisement from an admissions counselor or an academic advisor to ensure enrollment in courses in which the applicant shows a reasonable chance of success.
- C. Remove academic deficiencies in each academic area before taking collegiate level work in that area. All deficiencies must be completed during the first 24 hours of college work at OPSU.
- D. Meet the Oklahoma State Regents for Higher Education academic retention standards.

- **Home Study or Unaccredited High Schools Category**

An individual who is a graduate of a private, parochial, or other non-public high school not accredited by a recognized accrediting agency is eligible for admission as follows:

- A. The student must have participated in the ACT or SAT program and achieved the requisite composite score, as defined in “Part I: Regular Admission” for the degree program he/she wishes to enter.
- B. The student’s high school class of his or her peers must have graduated.
- C. The student must satisfy the high school curricular requirements for admission as certified by the school or, for home study, the parent.

- **Opportunity Admission Category**

Students who have not graduated from high school whose composite standard score on the ACT places them at the 99th percentile of all students, using Oklahoma norms, or whose combined verbal and mathematical scores on the SAT places them at the 99th percentile of all students, using national norms, may apply for full enrollment at OPSU. The University determines admissibility based on test scores, evaluation of a student’s level of maturity and ability to function in the adult college environment, and whether the experience will be in the best interest of the student intellectually and socially.

- **International Student Admission and Admission of Students for Whom English Is a Second Language**

International students must meet equivalent academic performance standards as listed for admission to associate or baccalaureate programs. Additionally, students for whom English is a second language shall be required to present evidence of proficiency in the English language prior to admission.

### PART III: Concurrent Enrollment of High School Students

- **A twelfth-grade student enrolled in an accredited high school may, if he/she meets the requirements below, be admitted provisionally to OPSU as a special student.**
  - A. Students who have completed their junior year who are enrolled in less than a full high school load and whose composite ACT score is 20 or whose high school GPA is at or above 3.0 on a 4.0 scale, and are in the top 50% of their class, are eligible to enroll at OPSU during their senior year of high school. In addition, an ACT test score of 19 must be achieved in the area where study will be pursued. For example, a mathematics score of 19 must be achieved before enrolling in Math 1513--College Algebra.
  - B. Students must have signed statements from their high school principals or counselors stating that they are eligible to satisfy requirements for graduation from high school (including curricular requirements for college admission) no later than the spring of the senior year. Students must also provide written permission from their parents or legal guardians.
- **An eleventh-grade student enrolled in an accredited high school may, if he/she meets the requirements below, be admitted provisionally to OPSU as a special student.**
  - A. Students must have achieved a composite score of 23 or has a high school GPA at or above 3.5 on a 4.0 scale. In addition, an ACT test score of 19 must be achieved in the area where study will be pursued.
  - B. Students must have a signed statement from their high school principals or counselors stating that they are eligible to satisfy requirements for graduation from high school (including curricular requirements for college admission) no later than the spring of the senior year. Students must also provide written permission from their parents or legal guardians.
- **A student receiving high school level instruction at home or from an unaccredited high school may be admitted provisionally to OPSU as a special student if he/she meets the requirements below:**
  - A. He/She must be 17 years of age or older and have a composite ACT test score which places him/her at or above the 42<sup>nd</sup> percentile using Oklahoma norms, or
  - B. He/She must be 16 years of age and have achieved a composite ACT test score which places him/her at or above the 58<sup>th</sup> percentile using Oklahoma norms.
  - C. An ACT test score of 19 must be achieved in the area where study will be pursued.

A high school student admitted under the provisions above may enroll in a combined number of high school and college courses per semester not to exceed a full-time workload of 19 semester credit hours. For purposes of calculating workload, one-half high school unit shall be equivalent to three semester credit hours of college work. The collegiate portion of the student's workload must be taken from regular faculty members of OPSU and may be provided off campus if approved by the Oklahoma State Regents for Higher Education (OSRHE) and may use alternative delivery systems if approved by the OSRHE. OPSU will provide appropriate academic advising prior to and continuing throughout the student's enrollment. High school students enrolling concurrently in off-campus classes may only enroll in liberal arts and sciences courses.

- A student who is otherwise eligible under this policy may enroll in a maximum of nine semester credit hours during a summer session or term without the necessity of being concurrently enrolled in high school classes during the summer term. The completion of the high school curricular requirements shall not be required of concurrently enrolled high school students for purposes of admission. Students may only enroll in curricular areas where the student has met the curricular requirements for college admission. Concurrently admitted high school students will not be allowed to enroll in any developmental/remedial courses.
- Following high school graduation, such students may continue their enrollment at OPSU provided that during the provisional enrollment period they have achieved a college grade point average of 2.0 or above on a 4.0 scale and have met the entrance requirements of OPSU, including the high school curricular requirements.

#### **PART IV: Admission by Transfer**

A transfer student is any undergraduate student with more than six attempted semester credit hours, excluding developmental/remedial (0-level), pre-college work, or credit hours accumulated by concurrent enrollment.

- **Undergraduate Students Entering by Transfer from a State System Institution**

An Oklahoma State system student who wishes to transfer to OPSU may do so under the following conditions:

1. If the student originally met both the high school curricular requirements and academic performance standards for the respective OPSU baccalaureate program, he/she must have a GPA high enough to meet OSRHE retention standards.
2. If the student originally met the high school curricular requirements but not the academic performance standards of OPSU, he/she must have a GPA high enough to meet the OPSU retention standards, based on at least 24 attempted semester credit hours of regularly graded ("A," "B," "C," "D," "F") college work.
3. If the student originally met the academic performance standards but not the curricular requirements of OPSU, he/she must have a GPA high enough to meet the OPSU retention standards and must also complete the curricular requirements before transferring.
4. If the student originally met neither the high school curricular requirements nor the academic performance standards of OPSU, he/she must have a GPA high enough to meet the OPSU retention standards based on at least 24 attempted semester credit hours of regularly graded ("A," "B," "C," "D," "F") college work and must also complete the curricular requirements before transferring.

- **Students Entering by Transfer from an Out-of-State Institution**

A student who wishes to transfer from an out-of-state college or university to OPSU may do so by meeting the regular admission requirements of OPSU (including ACT/SAT testing and/or placement testing) and by submitting official transcripts from every college or university attended.

- A. Transcripts of record from colleges or universities accredited by the North Central Association or other regional associations will be evaluated. Full value will be given for all work evaluated as transferable.

1. Each non-resident applicant must be in good standing in the institution from which she/he plans to transfer.
  2. Each non-resident applicant must have made satisfactory progress (an average of “C” or better) in the institution from which he/she plans to transfer in order to be enrolled in good standing at OPSU.
- B. Transcripts of record from institutions not accredited by a regional association may be accepted in transfer when appropriate to the student’s degree program and when OPSU has had an opportunity to validate the courses or programs.
1. Each applicant must be in good standing in the institution from which she/he plans to transfer.
  2. Each applicant must have made satisfactory progress (an average grade of “C” or better) in the institution from which he/she plans to transfer and will be required to validate the transferred credit by making satisfactory progress (an average of “C” or better) for at least one semester.

- **Transfer Probation**

Transfer students entering from an accredited institution who do not meet academic criteria established by the OSRHE academic criteria, including high school curricular requirements, but have not been formally suspended, may be admitted as “transfer probation” students. Such students may be admitted as follows:

- A. Applicants will be admitted on probation and must maintain a 2.0 GPA on a 4.0 scale each semester while on probation or raise their cumulative GPA to current OSRHE retention standards.
- B. Each applicant must have originally met OPSU regular admission standards.
- C. Each student with curricular deficiencies must remove the deficiencies within the first 12 hours of enrollment.

## Retention Standards

The following standards relate to retention of students pursuing study in undergraduate programs at OPSU. For continued enrollment, a student must meet retention standards as prescribed below. All standards are based on a 4.0 GPA scale.

### PART I: Definition of Terms

- **Good Academic Standing:** Any student who meets the retention requirements (not on academic probation or academic suspension) as set forth in this policy is in good academic standing.
- **Academic Notice:** Freshmen students, with 30 or fewer semester credit hours and with a retention GPA of at least 1.7 but less than 2.0, will be placed on academic notice. Academic notice provides early monitoring of academic progress.
- **Academic Probation:** Any student whose retention GPA falls below those designated in Part II for a given semester is on academic probation.

- **Academic Suspension:** Any student who was on academic probation the previous semester and who fails to raise his/her GPA to the required retention level designated in Part II or to achieve a 2.0 GPA the next semester in regularly-graded course work, not to include activity or performance courses, will be suspended from the institution.

## **PART II: Retention GPA Requirements**

All courses in which a student has a recorded grade in regularly graded courses (“A,” “B,” “C,” “D,” “F”) will be counted in the calculation of the GPA for retention purposes.

Once a student has attempted 30 semester credit hours, he/she must maintain a 2.0 retention GPA for the duration of his/her college experience.

A student will be placed on academic probation if he/she fails to meet the following retention GPA requirements:

<u>Credit Hours Attempted</u>	<u>GPA</u>
0 through 30	1.7
Greater than 30	2.0

Freshman students with fewer than 30 attempted credit hours and with a retention GPA of at least 1.7, but less than 2.0 will be placed on academic notice.

Any student not maintaining satisfactory progress toward his/her academic objective as indicated above will be placed on probation for one semester. At the end of that semester, he/she must have a semester GPA of 2.0 in regularly-graded course work, not to include activity or performance courses, or meet the minimum retention GPA standard required above in order to continue as a student. Students not meeting either of these criteria will be immediately suspended and may not be reinstated until one regular semester (fall or spring) has elapsed. Students suspended in the spring semester may attend the summer session immediately following spring suspension. However, such students may register only in core academic courses which meet the general education requirement or degree requirements. Only students under first-time suspension status at OPSU are eligible. To continue in the fall semester, such students must achieve at least a 2.0 semester GPA or raise their retention GPA to the required level.

Students placed on “Academic Notice,” “Academic Probation,” or “Academic Suspension” will be informed of their status, in writing by the Office of the Registrar and will be advised concerning conditions for continued enrollment.

## **PART III: Additional Requirements**

- **Suspension of Seniors**

A student with 90 or more hours in a specified degree program who has failed to meet the retention grade point average of 2.0 or the semester GPA of 2.0 may enroll in an additional 15 semester hours in a further attempt to achieve the requirements for retention. During this 15 hours of enrollment, the student must achieve a minimum semester GPA of 2.0 during each enrollment or raise his/her retention GPA to 2.0 or above. Such students will be afforded this extension one time only.

- **Academic Suspension Appeals**

Students who are placed on academic probation or suspension will be informed in writing by the Office of the Registrar and will be advised concerning conditions for continued enrollment or re-admission. Suspended students may make a written request through the Office of the Registrar for a hearing before the Admissions Committee. Each student heard will be required to document any extraordinary personal circumstances that contributed to his/her academic deficiencies. Such events must be highly unusual such as the death of an immediate relative; a serious illness; severe financial distress; direct, significant work conflicts; unexpected, substantial family obligations; or personal crisis. Appeal decisions will be made by the Admissions Committee after thoughtful deliberation.

If the appeal is granted, the Admissions Committee will prescribe a specific plan of action for the student to follow. The plan will include, but is not limited to, specified courses and number of credit hours in which the student may register. The student will also be informed of all academic support services available and may be required to take advantage of such services.

The Admissions Committee will notify the student in writing of its decision.

- **Readmission of Suspended Students**

- A. Students who are academically suspended will not be allowed to re-enter for at least one regular semester (fall or spring) except as noted above in Academic Suspension Appeals.
- B. Students who are academically suspended will be re-admitted only one time. Such students are re-admitted on probationary status and must maintain at least a 2.0 GPA each semester attempted while on probation or raise their cumulative GPA to at least 2.0.
- C. A student who is suspended a second time cannot return to OPSU until such time as he/she has demonstrated, by attending another institution, the ability to succeed academically by raising his/her retention GPA to at least 2.0.

- **Reinstatement of Suspended Students at System Institutions**

- A. Students who are placed on academic suspension at other institutions within the state system will be admitted on probation to OPSU provided they have not been enrolled for at least one regular semester (fall or spring) or comply with the published Academic Suspension Appeals process previously noted. They must also otherwise qualify for regular admission to OPSU.
- B. The student will be admitted on probation and must maintain at least a 2.0 semester GPA each semester while on probation or raise the cumulative GPA to the current OPSU retention standards.
- C. The student will be admitted to OPSU one time only. A student admitted under this policy who is subsequently suspended from OPSU cannot return to OPSU until such time as he/she has demonstrated, by attending another institution, the ability to succeed academically by raising his/her retention GPA to at least 2.0.



## Grade Point Calculation

A GPA will be calculated on the basis of total semester hours attempted in grade point bearing courses and total grade points. These are listed as “Quality Hours” on transcripts. Developmental/remedial courses and activity courses in the Department of Health, Physical Education (HPER) are excluded from GPA calculation. To determine a GPA, find the total number of grade points (QPTS) and divide by the number of semester hours (QHRS) attempted. The following definitions will help in interpreting the grade point system:

1. **Semester Hours Attempted.** The term “semester hours attempted” is interpreted to mean all semester hours of collegiate study in which a student has enrolled and for which he/she has received a final grade.
2. **Repeated Courses.** 2. Repeated Courses. A student may repeat a course any number of times. A student shall have the prerogative to repeat courses and have only the second grade earned, even if it is lower than the first, count in the calculation of the GPA, up to a maximum of four courses, but not to exceed 18 semester credit hours, in which grades of “D” or “F” were received. Both attempts shall be recorded on the transcript with the earned grade for each listed in the semester earned. Repeated courses are in addition to the academic reprieve policy. If a student repeats an individual course more than once, all grades earned, with the exception of those exempted, are used to calculate the retention and graduation GPA. Students repeating courses above the first four courses or 18 credit hours of “D’s” or “F’s” repeated may do so with the original grades and repeat grades averaged.
3. **The Grade of “I.”** The grade of “I” is given to a student under extraordinary reasons, such as student illness or family emergency. An “I” should not be given to a student who is in danger of receiving an “F” in the course. An “I” should be given only if the student has completed a majority of the course. An “I” should not be given so that the student can retake the course at a later date. The student must initiate the granting of the “I.” The student will have a maximum of one year to remove the “I”; however, the instructor of record may shorten the time as long as the student knows the end date. The dean of the school under extraordinary circumstances may extend the end date. The student has the responsibility of submitting work as needed to satisfy the removal of the “I” as soon as possible to the Instructor by completing the appropriate paperwork. If an “I” is not removed before the end date, the “I” shall become permanent on the student’s academic record if the instructor does not enter an alternative grade (e.g. “F,” “D”). The “I” grade remains neutral in the calculation of the cumulative grade point average unless the instructor assigns a default grade.
4. Transcripts show GPA calculations: (1) cumulative GPA that includes all courses in which a grade was assigned and (2) retention and graduation GPA that excludes reprieved courses and those repeated courses which can be excluded.

### Grades and Grade Points

<u>Grade</u>	<u>Description</u>	<u>Points</u>
A	Excellent	4.00
B	Good	3.00
C	Satisfactory	2.00
D	Passing	1.00
F	Failing	0.00
I	Incomplete	GPA neutral
P	Extrainstitutional credit	GPA neutral
W	Withdrawal	GPA neutral
AU	Audit	GPA neutral
S	Satisfactory	GPA neutral
U	Failing	GPA neutral

## Academic Forgiveness Provisions

Circumstances may justify a student being able to recover from academic problems in ways which do not forever jeopardize his/her academic standing. The student's academic transcript, however, should be a full and accurate reflection of the facts of the student's academic life. Therefore, in situations which warrant academic forgiveness, the transcript will reflect all courses in which a student was enrolled and in which grades were earned, with the academic forgiveness provisions reflected in such matters as how the retention/graduation GPA is calculated. Specifically for those students receiving academic forgiveness by repeating courses or through academic reprieve or renewal, the transcript will reflect the retention/graduation GPA excluding forgiven courses/semesters. The transcript will also note the cumulative GPA which includes all attempted regularly graded course work.

Academic forgiveness may be warranted for currently enrolled undergraduate students in three specific circumstances: (1) For pedagogical reasons, a student will be allowed to repeat a course and count only the second grade earned in the calculation of the retention/graduation GPA under the prescribed circumstances listed below. (2) There may be extraordinary situations in which a student had done poorly in up to two semesters due to extenuating circumstances which, in the judgment of the appropriate institutional officials, warrants excluding grades from those semesters in calculating the student's retention/graduation GPA. (3) A student may be returning to college after an extended absence and/or under circumstances that warrant a fresh academic start.

Students may seek academic forgiveness utilizing the following institutional procedures. A student may receive no more than one academic reprieve or renewal in his/her academic career, and only one option (reprieve or renewal) can be used. The repeated courses' provision may be utilized independent of reprieve or renewal within the limits prescribed below.

### 1. Repeated Courses

A student may repeat a course any number of times. A maximum of four repeated courses, but not to exceed 18 semester hours in which grades of "D" or "F" were received, may be excluded from retention/graduation GPA calculations. In this case, only the second grade received in the course is used in the calculation of the grade point average of that student for graduation/retention GPA. The student must request this action, either verbally or in writing, through the office of the Registrar. Repeated courses are in addition to the academic reprieve policy. If a student repeats an individual course more than once, all grades earned, with the exception of those exempted, are used to calculate the retention/graduation GPA. Students repeating courses above the first four courses or 18 credit hours of "D" or "F" repeated may do so with the original grades and repeat averaged.

### 2. Academic Reprieve Policy

OPSU grants academic reprieve consistent with OSRHE policy as follows:

1. The student must be currently enrolled at OPSU.
2. Prior to requesting the academic reprieve, the student must have completed 12 hours at OPSU since he/she completed the period in which the grades he/she requested to be reprieved were earned.
3. The student must petition for a reprieve in writing to the Office of the Registrar.
4. At least three years must have elapsed between the period in which the grades being requested to be reprieved were earned and the reprieve request.

5. Prior to requesting the academic reprieve, the student must have earned a GPA of 2.0 or higher with no grade lower than a “C” in all regularly graded course work (a minimum of 12 hours) excluding activity or performance courses. This course work may have been since completion of the period in which the grades being requested to be reprieved were earned.
6. The request may be for one semester or term of enrollment or two consecutive semesters or terms of enrollment.
7. If the reprieve is awarded, all grades and hours earned during the enrollment period are included. Both passing and failing grades are excluded from the graduation/retention GPA and from hours earned and attempted. If the student has mastered the content of a course that is required for graduation as indicated by a passing grade, the student does not have to repeat the same course. However, he/she must still complete the minimum requirements for graduation excluding all credits earned during the reprieved terms. All courses will remain on the student’s transcript, but will be marked to indicate that they are not included in the graduation/retention computations.
8. A reprieved semester or semesters may have been completed at any accredited institution of higher education.
9. The student may not receive more than one academic renewal or academic reprieve from OPSU during his/her academic career. The student may receive either a renewal or reprieve but not both.
10. An academic reprieve granted by OPSU cannot be cancelled or modified by OPSU at a later date.
11. The transcript will show two GPA calculations: (1) Cumulative GPA including all courses in which a grade was assigned; (2) Graduation/retention GPA excluding reprieved courses and those repeated courses which can be excluded.

### **3. Academic Renewal Policy**

OPSU grants academic renewal consistent with OSRHE policy as follows:

1. The student must be currently enrolled at OPSU.
2. Prior to requesting the academic renewal, the student must have completed 12 hours at OPSU since the last semester being requested for renewal consideration.
3. The student must petition for an academic renewal in writing to the Office of the Registrar.
4. At least five years must have lapsed between the last semester being requested for academic renewal and the renewal request.
5. Prior to requesting the academic renewal, the student must have earned a GPA of 2.0 or higher with no grade lower than a “C” in all regularly graded course work (a minimum of 12 hours) excluding activity or performance courses. This course work may have been completed at any accredited institution of higher education. This work must have been since the last semester specified in the renewal request.
6. The request will be for all courses completed before and including the semester specified in the renewal request.
7. If the renewal is awarded, all grades and hours earned before and including the semester specified are included. Both passing and failing grades are excluded from the graduation/retention GPA and from hours earned and attempted. All courses will remain on the student’s transcript, but will be marked to indicate

that they are not included in the graduation/retention computations. Neither the content nor credit hours of renewed coursework may be used to fulfill any degree or graduation requirements.

8. Renewed courses may have been completed at any accredited institution of higher education.
9. The student may not receive more than one academic renewal or academic reprieve from OPSU during his her academic career. The student may receive either a renewal or reprieve but not both.
10. An academic renewal granted by OPSU cannot be cancelled or modified by OPSU at a later date.
11. The transcript will show two GPA calculations: (1) Cumulative GPA that includes courses in which a grade was assigned; (2) Graduation/retention GPA that excludes academic renewal actions and those repeated courses which can be excluded.

### **Grade Point Calculation Required for Graduation**

A retention grade point average of 2.0 or better on a 4.0 scale and the minimum GPA as required by the department in the major and minor fields will be required for graduation.

### **Graduation with Honors**

Students who achieve a cumulative GPA of 3.5 on a 4.0 scale during their entire baccalaureate program will graduate *cum laude*. Those with a cumulative GPA of 3.75 on a 4.0 scale will graduate *magna cum laude*. Those with a cumulative average of 4.0 on a 4.0 scale will graduate *summa cum laude*. For persons seeking a second degree, honors are calculated on the candidates' entire undergraduate grade point totals.

## **Scholarship Regulations**

### **Scholarship Required for Extra-Curricular Participation**

All students, after the first year, who represent the University in any intercollegiate competitive activity or who desire to serve on the Student Senate must be regular, full-time students. A regular, full-time student is one enrolled in a minimum of 12 semester hours in residence and one who has earned 24 semester hours of credit in the last two terms of attendance. First-year freshmen must be enrolled in no less than 12 semester hours, and second- semester freshmen are required to have received 12 semester hours of credit in their last semester of attendance. All extra-curricular scholarship recipients must have a 2.0 on a 4.0 scale overall retention GPA or a 2.0 on a 4.0 scale for the preceding semester.

### **Scholarship Required of Officers of Collegiate Organizations**

Only regularly enrolled students who during their last term of attendance at the University have passed 12 hours of their scheduled work shall be permitted to hold any collegiate office or elective collegiate position. The scholarship requirement does not apply to first-semester freshmen.

## Academic Regulations

### Pre-enrollment

The period for pre-enrollment for each semester and summer session is held in order to allow students to register early.

### Final Enrollment

Final enrollment is conducted during the last days before classes begin, unless otherwise announced. All students are expected to register on or before these designated days. Late enrollment is permitted under certain conditions, but a student must register no later than the fifth class day including the first day of classes of a regular semester or summer session.

Each student is expected to become familiar with the requirements of his/her chosen curriculum. Students are assisted in registering by assigned faculty advisors and other instructors present during registration for this purpose, but **ultimately, students are solely responsible for their own academic planning.**

### The Study Program

A normal study program for freshmen is 15 to 16 semester hours, exclusive of physical education and musical and forensic activity credit. A regular program for upperclassmen is 17 to 19 semester hours and may exceed this amount by requesting an approval for an “overload” from the Office of the Vice President for Academic Affairs. The policy for overloads follows:

**20-21 hours:** Must have advisor’s written recommendation. Must have a 3.0 GPA within last 30 hours completed. Must be approved by the Office of Academic Affairs (unofficial transcript must accompany request). If students do not have a 3.0 within their last 30 hours, they may appeal in writing to the Academic Council. A student must submit a written request and an unofficial copy of his/her transcript.

**22-24 hours:** Must have advisor’s written recommendation. Must have a 3.0 GPA within last 30 hours completed and obtain Academic Council approval. Student must submit a written request to the council and an unofficial copy of his/her transcript.

### Class Standing

Class standing is determined as follows:

<u>Hours</u>	<u>Classification</u>
1-28	Freshman
29-59	Sophomore
60-89	Junior
90 or above	Senior

**Attendance**

Responsibility for attending class rests upon the student. The instructor often considers regularity of class and laboratory attendance in determining final grades. The student is expected to be in a class for which he/she is registered every time the class meets. Unavoidable absences do not excuse the student from the obligation to do all the work required in the course. Attendance is counted from the first day of classes, even for late enrollees.

Attendance and penalties are decided by each individual instructor.

**Adding and Dropping Courses**

The permission of the faculty advisor and the instructor must be obtained in dropping and adding courses or otherwise altering study programs. To be official, course changes must be processed by the Office of the Registrar. Courses may not be added after the end of five instructional days of class unless permitted by the Office of the Vice President for Academic Affairs.

After the 10th class day, the student may withdraw from the course through the 11th week of classes with a grade of “W” which remains on the transcript and is neutral in the calculation of GPA. Courses withdrawn from during the 12th and 13th weeks will receive a grade of “W” or “F” depending on the student’s record at the time of official withdrawal from class. The grade of “F” is figured in the student’s grade point average. Courses may not be withdrawn from during the two-week period prior to final examinations. Summer and interterm dates are correspondingly set in relationship to the length of the term.

International students need to consult with International Student Coordinators after registering for the semester, to ensure Student and Exchange Visitor Information System (SEVIS) regulations are met.

**Withdrawal from the Institution**

A student who finds it necessary to withdraw from the University before the close of the semester should go to the Office of Admissions to begin the official withdrawal process.

The student will be given honorable dismissal upon the presentation to the Office of the Registrar of a clearance sheet bearing the signatures of the University Bookstore manager, E. McKee Library director, the housing supervisor, the Financial Aid director, Dean of Student Affairs, and the business office cashier. Grades in the courses in which the student is enrolled at the time of withdrawal are determined by the regulations given within the section “Adding and Dropping Courses.” The fact that the student may have withdrawn does not alter the scholarship probation requirements. Leaving college without completing the withdrawal process will result in the recording of “F” in all courses in which the student was registered.

The last day to withdraw from a single course is also the last day for total withdrawal from all courses.

A withdrawal is not complete until the completed withdrawal form, with all signatures, is filed at the Office of the Registrar.

International students need to consult with International Student Coordinators before dropping or withdrawing for the semester. Under reporting regulations required by the Student and Exchange Visitor Information System (SEVIS), dropping below full-time can put a student’s visa status in jeopardy.

## **Military Withdrawal**

### **Policy Statement – Military Activation of Currently Enrolled Students**

Any currently enrolled student called to active duty with a reporting date prior to the end of the academic term will be afforded the following options:

1. Withdraw from all courses with no penalty, full refund, and no record of enrollment (full cancellation of enrollment for the active term).
2. Be awarded “Incomplete” grades for all classes in the active term in which a regular grade has not been earned or awarded.
  - a. In those cases where a regular grade has been earned or awarded, the regular grade will supersede an “Incomplete” grade.
  - b. “Incomplete” grade forms will indicate the required remaining work to be completed.
  - c. The time limit for completion of an “Incomplete” is now set at one year by OSRHE policy. If this option is exercised by the student, OPSU will attempt to set the completion time as the longer of established OSRHE time limit or three months from release of active duty or discharge from military service, as applicable (approval of OSRHE required).

#### **Provisions of this policy:**

1. No combinations of the two options will be approved. Either option “a.” or option “b.” must be selected and will apply to the entire term schedule.
2. Official military orders will be the determining documentation for application of the provisions of this policy. A copy of the official military orders showing activation or recall and, if applicable, release from active duty or discharge will be on file with the Office of the Registrar.

## **Final Examinations**

During the last week of school each semester, a two-hour period is set aside for final examinations. All students will take finals during this period. No early examinations are allowed. However, in the event of illness or other catastrophe, a student may receive permission from the Office of the Vice President for Academic Affairs to take an early or late examination.

## **Right of Appeal**

Students have the right to appeal a grade that they feel they did not deserve. They must initiate the grade appeal within six weeks from the end of the specific term with a written letter to the instructor or if they grade is received during a summer session or an interterm session, the student will follow the deadline that applies to the semester in which the credit for the course is granted.

The protocol for the grade appeal is as follows:

1. Seek redress with the instructor of record
2. Seek redress with the course’s department chair
3. Seek redress with the course’s dean
4. Seek redress with the Vice President for Academic Affairs (SL 137)

Should these channels not satisfy the grievance, the student may appeal to the chair of the Instructional Accountability Committee as a court of last resort. The chair's contact information is available in the Office of the Vice President for Academic Affairs. The Instructional Accountability Committee's decision is final.

### **Academic Integrity Policy**

An institution's reputation and intellectual freedom depend on its uncompromising commitment to the ideal of academic integrity. OPSU is committed to instilling and upholding integrity as a core value. OPSU is dedicated to maintaining and honest academic environment and ensuring fair resolution of alleged violations of academic integrity.

Academic integrity is required in every aspect of a student's association with OPSU. Students will respect OPSU's commitment to academic integrity and uphold the values of honesty and responsibility that preserve our academic community.

Students are expected to demonstrate academic integrity through the following actions:

- understand and uphold the academic integrity guidelines established by the university and instructors.
- present their own work for evaluation by their instructors.
- appropriately cite the words and ideas of others.
- protect their responsibility for their own actions.
- accept the responsibility for their own actions.
- treat instructors with respect when violations of academic integrity are examined.

### **Violations of Academic Integrity**

Behaviors that violate the fundamental values of academic integrity may include, but are not limited to:

**1. Unauthorized Collaboration:** Completing an assignment or examination with other students, turning in work that is identical or similar to others' work, or receiving help on assignments without permission of the instructor. This may also include excessively relying upon and borrowing ideas and work of others in a group effort.

**2. Plagiarism:** Presenting the written, published, or creative work of another as the student's own work. Whenever the student uses wording, arguments, data, design, etc., belonging to someone else in a paper, report, oral presentation, or other assignment, the student must make this fact explicitly clear by correctly citing the appropriate references or sources by using a professional, accepted writing format style, such as Modern Language Association (MLA), Chicago Manual of Style, American Psychology Association (APA), etc. The student must fully indicate the extent to which any part or parts of the project are attributable to others. The student must also provide citations for paraphrased materials. The following are examples of plagiarism:

- copying another student's assignment, computer program or examination with or without permission from the author;
- copying another student's computer program and changing only minor items such as logic, variable names, or labels;
- copying or paraphrasing material from an Internet or written source without proper citation;
- copying words and then changing them a little, even if the student gives the source;
- verbatim copying without using quotation marks, even if the source is cited;
- and expressing in the student's own words someone else's ideas without giving proper credit.



OPSU decried plagiarism, the worst form of academic misconduct. OPSU recognizes that there are two forms of plagiarism: intentional and unintentional. Of course, instructors must determine in their own minds the form of plagiarism that they encounter and establish penalties for each form. However, one might make a case for a wide difference between instances of intentional and unintentional plagiarism, and perhaps penalties for each form might be different as well.

When an instructor spots an initial instance of unintentional plagiarism in a student's work--in an assignment or in a class--the instructor may opt to view this form of plagiarism as a result of a student's misunderstanding of the nature of research or student's poor proofreading skills and not penalize the assignment too stringently. Upon recognizing such unintentional plagiarism, the instructor should ensure that lapse of academic integrity may never occur again. If, however, an instructor encounters a second instance of unintentional plagiarism from a student --in an assignment or in a class--the instructor may fail a student for the offensive assignment and/or the course.

When an instructor spots intentional plagiarism in a student's work, that instructor may opt to fail the assignment wherein the intentional plagiarism is found and/or fail the student in the course where the intentional plagiarism was committed and/or deal with the issue as the instructor sees fit.

**3. Multiple Submissions:** Submitting substantial portions of the same academic work for credit to more than one class (or to the same class if the student repeats a course) without permission of the instructors.

**4. Cheating on Examinations:** Gather unauthorized information before or during an examination from others, using notes or other unapproved aids during an examination, failing to observe the rules governing the conduct of examinations (for example, continuing to work on an examination after time is called at the end of an examination), or having another student take an examination for the student.

**5. Fabricating Information:** Making up references for a bibliography, falsifying laboratory or research data (for example, tampering with experimental data to obtain "desired" results or creating results for experiments that were not done), or using a false excuse for an absence or an extension on a due date.

**6. Helping Another Person Cheat:** Providing information about an examination to another student (for example, sending an electronic message with answers during an examination), giving unauthorized help on assignments, or failing to prevent misuse of work by others (for example, allowing another student to copy an examination, assignment, or computer program). A student must take reasonable care that examination answers are not seen by others or that term papers or projects are not plagiarized or otherwise misused by others. This category also includes taking an examination on behalf of another student.

**7. Unauthorized Advance Access to Examinations:** Obtaining an advance copy of an examination without the instructor's permission or getting questions and answers from someone who took the examination earlier.

**8. Altering or Destroying the Work of Others:** Changing or damaging computer files, papers, or other academic products that belong to others.

**9. Fraudulently Altering Academic Records:** Altering graded papers, computer materials/records, course withdrawal slips, or academic documents. This includes forging an instructor or adviser signature and altering transcripts.

## **Class Periods**

A regular class during the fall or spring semester meets 50 minutes per week for each credit hour awarded. For those courses designated as three semester credit hours, classes normally meet either 50 minutes three days per week, 75 minutes two days per week, or 150 minutes one day per week. Laboratory classes meet a minimum of two hours per week per semester credit hour awarded.

## **Credit**

Credit for courses is given in terms of semester hours. A semester hour credit is given for the equivalent of 800 minutes of class work for a semester.

## **Transcripts**

Neither official nor unofficial transcripts will be released if a student has a financial obligation to the University or is missing required documents at the registrar's office. Requests must be addressed in writing to the registrar.

## **Audit of Courses**

Persons may enroll in selected courses on an audit basis provided space is available. Auditors are required to register and pay regular fees. A grade of "AU" is recorded on the transcript. Auditors may request University credit (change to a credit course) prior to the deadline for adding courses by filling out a drop/add form.

## **Senior Citizen Fee Waiver**

Residents of Oklahoma 65 years of age or older may audit any academic course offered by the University for which they have the prerequisite background on a space available basis. Senior citizen enrollment will begin on the second day of classes and end at the regular University date for closing enrollment. Persons enrolling in courses on this audit fee waiver basis may participate in the rental book plan by paying the rental fee, or they may purchase textbooks at the University bookstore. In most cases, books purchased will require a special order delay.

## **Use of Problems, Independent Studies, and Internship Courses**

No more than 12 hours of Problems, Independent Studies, and/or Internship Courses will be allowed to be taken by any student. A student is also limited to only one repeat of the course in each category. Prior to taking a Problems, Independent Studies, or Internship classes, prerequisites must be met or the following must be met in lieu of prerequisites:

- 3-6 or more hours of 1000 and/or 2000 level courses in that department
- Must have completed 40 hours of college level course work
- Must have a minimum graduation/retention GPA of 2.0 on a 4.0 scale.

During the summer, a limit of 6-8 hours of Problems, Independent Study, and Internship courses may be taken by any given student. No Problems, Independent Study, or Internship courses will be allowed during the May and January interterms unless the student is graduating at the end of said term. Instructors are required to retain course work of all Problems, Independent Studies, and Internship courses for 90 days from the end of the semester in which the courses were taken.

## General Requirements for Graduation

OPSU confers the Bachelor of Arts, the Bachelor of Science, and the Bachelor of Specialty degrees. The University also offers the Associate of Arts, the Associate of Science, and the Associate of Applied Science degrees. Degree candidates must meet certain uniform requirements to which are added specific requirements established by the various departments of the University.

### Uniform Requirements for the Associate's Degree

1. The minimum credit total required for an Associate degree is 60 semester hours. At least 15 semester hours of the work must be completed in residence at OPSU.
2. The student's grades must meet grade point requirements for graduation. A GPA of 2.0 in all work presented for graduation is required. Transfer students who have a GPA below 2.0 must raise the GPA to a 2.0 average including all previous work combined with credit taken at OPSU. All GPA computations are made on a 4.0 scale using the GPA calculation procedures previously addressed.
3. Candidates for degrees will graduate under the curriculum requirements which are in force when they enter the University provided they have no interruption in their enrollment and they complete their program within seven years.
4. Each graduate must submit an application for graduation through Self Service Banner. A graduation fee will be placed on applicants accounts after the application period is over. Summer graduates must file their applications in the spring. Graduates must make arrangements with the University bookstore for their caps, gowns, and graduation announcements. Degree candidates are encouraged to be present for their commencement exercises. If the degree candidate cannot attend, he/she should notify in writing the office of the Vice President for Academic Affairs. Degree candidates must make individual arrangements with the University bookstore for caps, gowns, and graduation announcements.
5. The liberal arts and sciences include the following academic arenas: social and behavioral sciences; communication; natural and life sciences; mathematics; and the history, literature, and theory of the fine arts. Courses whose primary purpose is directed toward specific occupational or professional objectives or courses in the arts which rely substantially on studio or performance work are not considered liberal arts and sciences for the purpose of this policy. Courses required for the general education program are not necessarily synonymous or mutually exclusive with the liberal arts and sciences.
6. A maximum of six semester hours of religion may be counted toward graduation.
7. A maximum of two semester hours of activity courses may be counted toward graduation.
8. Students must demonstrate computer proficiency, which includes the competent use of a variety of software and networking applications. This requirement may be completed through one of three options: (1) successful completion of a high school computer science course that meets the OSRHE high school curricular requirements (one year or more, not to include keyboarding), (2) satisfy the institution's computer proficiency assessment, or (3) successful completion of college-level course work in the computer information systems area.

## Uniform Requirements for the Bachelor's Degree

1. The minimum credit total required for a bachelor degree is 120 semester hours. At least 30 semester hours of the work must be completed at OPSU with at least 15 of the last 30 hours or at least 50 percent of the hours required by the institution in the major field must be satisfactorily completed at OPSU.
2. A minimum of 40 credit hours work must be earned in upper level courses of 3000 and above. Lower division courses may not be substituted for upper division courses.
3. The student's grades must meet GPA requirements for graduation. A GPA of 2.0 in all work presented for graduation is required. Transfer students who have a GPA below 2.0 must raise the GPA to a 2.0 average including all previous work combined with credit taken at OPSU. All GPA computations are made on a 4.0 scale using the GPA calculation procedures previously addressed.
4. Candidates for degrees will graduate under the curriculum requirements which are in force when they enter the University provided they have no interruption in their enrollment and have completed their program within seven years. In addition, students recognize that changes in teacher certification must be met (when mandated by the State Legislature and State Department of Education) before the University can recommend them for certification even though they meet graduation requirements.
5. Each graduate must submit an application for graduation through Self Service Banner. A graduation fee will be placed on applicants accounts after the application period is over. Summer graduates must file their applications in the spring. Graduates must make arrangements with the University bookstore for their caps, gowns, and graduation announcements. Degree candidates are encouraged to be present for their commencement exercise. If degree candidates cannot attend, they should notify the Office of the Vice President for Academic Affairs. Degree candidates must make individual arrangements with the University bookstore for caps, gowns, and graduation announcements.
6. A second bachelor's degree may be conferred when a student has earned 30 hours above the requirements for the first degree and has completed the specific requirements for the second degree. Honors for the second degree will include grade point calculations for all work taken at the undergraduate level.
7. The requirements of the general education curriculum must be met. It is advisable to complete most of these requirements as soon as it can be arranged, preferably by the time 60 semester hours of credit have been earned. We encourage upper level general education experience during the final two years of baccalaureate programs.
8. A major field of concentration of at least 30 semester hours including 15 upper division hours must be chosen and the appropriate departmental requirements satisfied; for example, to qualify for a bachelor's degree in agronomy, a student must meet all the special requirements of the Department of Agronomy. The department requirements are listed in the section entitled "Requirements for Graduation in Schools."
9. A minor of not fewer than 18 semester hours is required in some Bachelor of Arts and Bachelor of Science degree programs.

10. The liberal arts and sciences include courses in the following academic arenas: social and behavioral sciences; communication; natural and life sciences; mathematics; and the history, literature, and theory of the fine arts (music, art, drama, dance). Courses whose primary purpose is directed toward specific occupational or professional objectives or courses in the arts which rely substantially on studio or performance work are not considered liberal arts and sciences for the purpose of this policy. Courses required for the general education program are not necessarily synonymous or mutually exclusive with the liberal arts and sciences.
11. A maximum of six semester hours of religion may be counted toward graduation.
12. A maximum of two semester hours of activity courses may be counted toward graduation.
13. A bachelor's degree shall be based upon a minimum of 60 hours, excluding physical education activity courses, at a baccalaureate degree-granting institution, 40 hours of which must be upper-division course work.
14. Students must demonstrate computer proficiency, which includes the competent use of a variety of software and networking applications. This requirement may be completed through one of three options: (1) successful completion of a high school computer science course that meets the OSRHE high school curricular requirements (one year or more not to include keyboarding); (2) satisfy the institution's computer proficiency assessment, or (3) successful completion of college-level course work in the computer information systems area (only for students admitted/readmitted to OPSU beginning with Fall 1998 to present).

### **The Bachelor of Science Degree**

Candidates for the Bachelor of Science degree must meet the uniform requirements stated above and must have acquired 55 semester hours of liberal arts and sciences in their degree program. A minor may be required.

The bachelor of science degree is granted in the following subject fields:

- Agribusiness
- Agronomy
- Animal Science
- Biology
- Chemistry
- Criminal Justice
- Elementary Education
- Health and Physical Education
- Mathematics
- Physical Science
- Psychology
- Agriculture Education

### **The Bachelor of Arts Degree**

Candidates for the Bachelor of Arts degree must meet the uniform requirements stated above and must have acquired 80 semester hours of liberal arts and sciences in their degree program.

The Bachelor of Arts degree is granted in the following subject fields:

- English
- History
- Social Studies

## **Additional Bachelor Degrees**

Candidates for the following degrees must meet the uniform requirements stated in the previous page and must meet the liberal arts and sciences requirements in their particular degree programs. A minor may be required.

- Bachelor of Business Administration, Accounting
- Bachelor of Business Administration, Business Administration
- Bachelor of Business Administration, Computer Information Systems
- Bachelor of Industrial Technology
- Bachelor of Music
- Bachelor of Science in Nursing
- Bachelor of Technology
- Bachelor of Fine Arts

## **Approved Minor Fields**

Minors are offered in the following fields:

- Accounting
- Agricultural Economics
- Agronomy
- Animal Science
- Art Studies
- Art History
- Biology
- Business Administration
- Chemistry
- Coaching
- Computer Graphics
- Computer Information Systems
- Criminal Justice
- Earth Science
- Economics
- Education
- English - for teachers
- English - for non-teachers
- Finance
- History
- Humanities
- Industrial Technology
- Management
- Marketing
- Mathematics
- Music Performance
- Music Studies
- Natural Science
- Photography
- Physical Education
- Physical Science
- Political Science
- Psychology
- Social Studies
- Sociology
- Speech Communication

### **Associate in Arts Degrees**

Candidates for the Associate in Arts degree must complete 37 semester hours of required general education and must complete 23 semester hours of selected electives as approved by the advisor.

The Associate in Arts degree is offered in the following field:

- General Studies

### **Associate in Science Degrees**

Candidates for the Associate in Science degree must complete 37 semester hours of required general education and must complete 23 semester hours of selected electives as approved by the advisor.

The Associate in Science degree is offered in the following fields:

- Agriculture
- Business Administration
- Criminal Justice
- General Studies

### **Associate in Applied Science Degrees**

Candidates for the Associate in Applied Science degree must complete 60 semester hours consisting of prescribed general education courses and prescribed specialty courses.

The Associate in Applied Science degree is offered in the following fields:

- Technology

### **Certificate Programs**

Currently, OPSU offers a single Certificate of Completion. The program takes approximately two semesters to complete and provides focused instruction and the basic knowledge requirements to enter the wind-energy maintenance, beef/pork production, and the oil and gas industry professions.

- Advanced Emergency Medical Technician
- Emergency Medical Technician
- Fire Protection and Safety Training
- Wind Energy/Maintenance Technology

## General Education Curriculum

In order to insure that each student of the University becomes acquainted with the major areas of knowledge that are the common possession of all educated persons as individuals and citizens in a free society, the following curriculum of general education is prescribed for all candidates for degrees granted by OPSU and approved by the Oklahoma State Regents for Higher Education. For successful completion of the general education curriculum, the student should be able to:

- Read critically and express ideas clearly, logically, and persuasively in standard written English (ENGL 1113, 1213);
- Express ideas clearly, logically and persuasively in standard spoken English (COMM 1113);
- Apply mathematics as a language (MATH 1473, 1513, 1523 or 1824);
- Apply biological and physical science principles to the natural world (BIOL 1504, CHEM 1135, EASC 1114);
- Interpret relationships of the creative processes, aesthetic principles and historic traditions of one or more of the humanities (See catalog.);
- Identify the principles of history and culture of the United States (HIST 1313, 1323);
- Identify the principles of government, politics, and political organizations (POLS 1013);
- Recognize the ideas and principles that influence human thought and behavior (PSYC 1113 or SOC 1113 or CJ 1013);
- Identify the economic principles that effect macro-economics (ECON 2013, 2113, BADM 2113, AG 2343);

## General Education - 4 year Bachelor Degrees

### 40 Semester Hours

<b><u>Communication</u></b>	<b>9</b>
Engl 1113-Freshman English I	3
Engl 1213-Freshman English II	3
Communications Elective	3
<b><u>Mathematics</u></b>	<b>3</b>
Math 1513-College Algebra OR	3
Math 1473-Quantitative Reasoning OR	
Math 1523-Modeling and Basic Statistics	
<b><u>Natural Science</u></b>	<b>8</b>
Biological Science:	4
Biol 1304-Principles of Biology I	
Physical Science:	4
Chem 1135-General Chemistry OR	
Easc 1114-Physical Geology OR	
Easc 1214-Physical Geography OR	
Easc 2014-Natural Hazards OR	
Easc 2114-Historical Geology OR	
Easc 2214-Environmental Geology OR	
Phys 2014-General Physics and Lab	
<b><u>U.S. History and Government</u></b>	<b>6</b>
Hist 1313-U.S. History 1492-1877 OR	3
Hist 1323-U.S. History 1877-Present	
(Only Hist 1313 and Hist 1323 satisfy this requirement)	
Pols 1013- American Government	3
<b><u>Social Science</u></b>	<b>6</b>
Economics	3
(Econ/Badm 2113 required for business degrees)	
Social Science	3
Choose from geography, history, political science, sociology, psychology, or criminal justice	
<b><u>Humanities</u></b>	<b>6</b>
Choose from humanities, music appreciation, music history, art appreciation, literature, introduction to theater, philosophy, world history, upper level foreign language, AND/OR world religion. (Must include courses from two areas. No activity courses will count.)	
<b><u>Liberal Arts and Sciences Electives</u></b>	<b>1</b>
Choose from the courses identified in the course description portion of the catalog.	
<b><u>All Students must take</u></b>	
Ucss 1111- Student Success Seminar	1

**Note: No more than 12 semester hours may be used for both general education requirements and requirements in a major unless a lesser number is specified otherwise in the major requirements.**



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**General Education - 2 year Associate of Science and Associate of Art Degrees**

<b>37 Semester Hours</b>	
<b><u>Communication</u></b>	<b>6</b>
Engl 1113-Freshman English I	3
Engl 1213-Freshman English II	3
<b><u>Mathematics</u></b>	<b>3</b>
Math 1513-College Algebra OR	3
Math 1473-Quantitative Reasoning OR	
Math 1523-Modeling and Basic Statistics	
<b><u>Natural Science</u></b>	<b>8</b>
Biological Science:	4
Biol 1304-Principles of Biology I	
Physical Science:	4
Chem 1135-General Chemistry OR	
Easc 1114-Physical Geology OR	
Easc 1214-Physical Geography OR	
Easc 2014-Natural Hazards OR	
Easc 2114-Historical Geology OR	
Easc 2214-Environmental Geology OR	
Phys 2014-General Physics and Lab	
<b><u>U.S. History and Government</u></b>	<b>6</b>
Hist 1313-U.S. History 1492-1877 OR	3
Hist 1323-U.S. History 1877-Present	
(Only Hist 1313 and Hist 1323 satisfy this requirement)	
Pols 1013- American Government	3
<b><u>Social Science</u></b>	<b>6</b>
Economics	3
(Econ/Badm 2113 required for business degrees)	
Social Science	3
Choose from geography, history, political science, sociology, psychology, or criminal justice	
<b><u>Humanities</u></b>	<b>6</b>
Choose from humanities, music appreciation, music history, art appreciation, literature, introduction to theater, philosophy, world history, upper level foreign language, AND/OR world religion. (Must include courses from two areas. No activity courses will count.)	
<b><u>Liberal Arts and Sciences Electives</u></b>	<b>1</b>
Choose from the courses identified in the course description portion of the catalog.	
<b><u>All Students must take</u></b>	
Ucss 1111- Student Success Seminar	1

**Note: No more than 12 semester hours may be used for both general education requirements and requirements in a major unless a lesser number is specified otherwise in the major requirements.**

**General Education Policy on Transfer Students**

A transfer student who has been certified by an accredited junior college in Oklahoma as having completed satisfactorily its prescribed general education program culminated by an Associate of Arts or Associate of Science degree will be accepted by OPSU as having fulfilled the lower-division general education requirements.

Teacher education candidates may be required to take additional courses in general education to meet minimum certification requirements, as defined by the State, i.e., health, physical education, and recreation; geography; Oklahoma history, etc. or similar additional requirements of other professional fields. Associate of Arts, Associate of Science, and Associate of Applied Science degrees from non-Oklahoma institutions will be evaluated.

**Transcript Corrections**

Correction of grades on the student's official transcript can only be initiated with a written request for a grade change by the original instructor of the class explaining reasons for the request. The grade change request must be approved in writing by the Office of the Vice President for Academic Affairs. In the event the original instructor is unavailable, the student may appeal to the Instructional Accountability Committee which may initiate the above process.

**Student Responsibility for Completion of Requirements**

In advising and registering students, faculty advisors, the vice president for academic affairs, and the registrar try to prevent errors. The student is expected to remember that graduation and teacher certification are attained according to the University catalog and is expected to study the requirements as set forth and to register in accordance therewith. In registering, the student is to follow the procedures prescribed by the Office of the Registrar. **Ultimately, each student bears his or her own responsibility for meeting graduation requirements.**

## Associate Degree Programs

OPSU offers two-year programs leading to the Associate of Arts (AA), Associate of Science (AS), and the Associate of Applied Science (AAS) degrees.

The Associate of Arts and Associate of Science degree programs are offered in general studies and are available in most departments offering a baccalaureate degree. Either of these degrees qualifies a student to go on to a four-year degree program.

The Associate of Applied Science is considered a terminal degree. It is vocational in nature and is designed for entry into the work force. Persons who obtain the Associate of Applied Science degree who desire to continue studies toward a baccalaureate degree may be required to take additional studies before being admitted to a four-year degree program.

A student may receive a bachelor degree with one major at the same commencement that s/he receives an associate degree with a different major. In order to receive both associate and bachelor degrees with the identical major, at least one full academic year must pass and the degrees must be recognized and awarded at two different commencement exercises.

The Associate of Applied Science programs include

- Technology

The student's grades must meet grade point requirements for graduation. A GPA of 2.0 in all work presented for graduation is required. Transfer students who have a GPA below 2.0 must raise the GPA to a 2.0 average including all previous work combined with credit taken at OPSU. All GPA computations are made on a 4.0 scale.

Associate degree graduates who do not participate in commencement exercises will not be charged a graduation fee. They will receive a transcript entry noting the receipt of an associate degree. No diploma will be issued to them.

Requirements for all associate degrees are outlined on the following pages.

### Faculty Contact:

Dr. Brad Duren  
Dean, College of Arts and Education  
Professor, History  
Hamilton Hall 213  
Phone: (580) 349-1498  
E-mail: duren@opsu.edu

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### General Studies (AA) 64 Semester Hours

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#### Student Success Seminar 1

Ucss 1111-Student Success Seminar

#### Communication 9

Engl 1113-Freshman English I

Engl 1213-Freshman English II

Comm 1113-Speech Communication

#### Mathematics 3

Math 1513-College Algebra OR

Math 1473- Quantitative Reasoning

#### American History and Government 6

Hist 1313-U.S. Hist 1492-1877 OR

Hist 1323-U.S. Hist 1877-Present

Pols 1013-American Government

#### Social Science 6

Economics 3

Social Science 3

#### Natural Sciences 8

Physical Science (lab course) 4

Biol 1304-Principles of Biology I

#### Humanities 6

Choose from humanities, music appreciation, music history, art appreciation, literature, upper level foreign language, introduction to theater, world history, AND/OR world religion. No activity courses count.

#### Liberal Arts and Science Electives 2

Choose from psychology, social sciences, foreign language, art, English, communications, humanities, science and mathematics.

#### Concentration

23 hours in one of the following areas:

(Any course taken in the concentration must be departmentally approved. Hours taken to satisfy general education may count toward the concentration.)

**Area 1:** Humanities: art, music, drama, humanities

**Area 2:** Communications: English, communications, and foreign language

**Area 3:** Social Studies: sociology, economics, history, political science, law enforcement, religion

**Faculty Contact** Mrs. Shawna Tucker  
Interim Dean, College of Agriculture, Science, and  
Nursing  
Assistant Professor, Mathematics  
Science and Agriculture Building 221  
Phone: (580) 349-1534  
E-mail: shawna.tucker@opsu.edu

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**General Studies (AS) 64 Semester Hours**

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**Student Success Seminar 1**

Ucss 1111-Student Success Seminar

**Communication 9**

Engl 1113-Freshman English I

Engl 1213-Freshman English II

Comm 1113-Speech Communication

**Mathematics 3**

Math 1513-College Algebra OR

Math 1473-Quantitative Reasoning

**American History and Government 6**

Hist 1313-US History 1492-1877 OR

Hist 1323-US History 1877-Present

Pols 1013-American Government

**Social Science 6**

Economics 3

Social Science 3

**Natural Sciences 8**

Physical Science (lab course) 4-5

Biol 1304-Principles of Biology I 4

**Humanities 6**

Choose from humanities, music appreciation, music history, art appreciation, literature, upper level foreign language, introduction to theater, world history, AND/OR world religion. No activity courses will count.

**Liberal Arts and Science Electives 2**

**Concentration**

23 hours in one of the following areas:

(Any course taken in the concentration must be departmentally approved. Hours taken to satisfy general education may count toward the concentration.)

**Area 1:** Education

**Area 2:** HPER (Maximum of two hours of activity class)

**Area 3:** Mathematics, physics

**Area 4:** Biology, chemistry, and earth science

**Area 5:** Psychology

**Faculty Contact:** Mr. Daren Stephens  
Instructor, Animal Science  
Science and Agriculture Building, 116  
Phone: (580) 349-1510  
E-mail: dstephens@opsu.edu

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**Agriculture (AS) 60 Semester Hours**

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**Student Success Seminar 1**

Ucss 1111

**Communication 6**

Engl 1113-Freshman English I

Engl 1213-Freshman English II

**Mathematics 3**

Math 1513-College Algebra OR

Math 1473- Quantitative Reasoning

**American History and Government 6**

Hist 1313-US History 1492-1877 OR

Hist 1323-US History 1877-Present

Pols 1013-American Government

**Social Science 6**

Economics 3

Social Science 3

**Natural Sciences 9**

Physical Science (lab course) 5

Biol 1304-Principles of Biology I 4

**Humanities 6**

Choose from humanities, music appreciation, music history, art appreciation, literature, upper level foreign language, introduction to theater, world history, AND/OR world religion. No activity courses will count.

**Liberal Arts and Science Electives 1**

**Agriculture 19**

Ag 1011-Introduction to Agriculture Industry

Agri 1213-Fundamentals of Plant Science

Agri 2124-Fundamentals of Soil Science

Ansi 1124-Introduction to Animal Science

Ansi 2124-Livestock Feeding

Communications Elective (3 hours)

**Additional Agriculture Electives 3**

**Faculty Contact** Dr. Sara Hitch  
 Chair, Department of Business Administration  
 Associate Professor, Business Administration  
 Carter Hall 201B  
 Phone: (580) 349-1442  
 E-mail: sahitch@opsu.edu

<b>Business Administration (AS)</b>	<b>60</b>
<b>Semester Hours</b>	
<b><u>Student Success Seminar</u></b>	<b>1</b>
Ucss 1111-Student Success Seminar	
<b><u>Communication</u></b>	<b>6</b>
Engl 1113-Freshman English I	
Engl 1213-Freshman English II	
<b><u>Mathematics</u></b>	<b>3</b>
*Math 1523-Modeling and Basic Statistics	
<b><u>American History and Government</u></b>	<b>6</b>
Hist 1313-U.S. Hist. 1492-1877 OR	
Hist 1323-U.S. Hist. 18767-Present	
Pols 1013-American Government	
<b><u>Social Sciences</u></b>	<b>6</b>
Economics - Econ 2113	3
Social Science	3
<b><u>Natural Sciences</u></b>	<b>8</b>
Physical Science lab course	4
Biological Science lab course	4
<b><u>Humanities</u></b>	<b>6</b>
Choose from humanities, music appreciation, music history, art appreciation, literature, upper level foreign language, introduction to theater, world history, AND/OR world religion. No activity courses will count.	
<b><u>Liberal Arts and Science Electives</u></b>	<b>1</b>
<b><u>Concentration</u></b>	<b>23</b>
Acct 2103-Financial Accounting	
Acct 2203-Managerial Accounting	
Badm 1013-Introduction to Business	
Badm 2013-Personal Finance	
Badm 2023-Professional Skills in the Workplace	
Cis 1113-Introduction to CIS OR	
Cis 2013-Information Systems for Business	
Cis 2223-Micro Applications	
**Econ 2123-Microeconomics	

\*Math 1513-College Algebra will be accepted for transfer students and change of major who have already had it.

\*\*One hour will count toward the Liberal Arts and Sciences elective.

**Faculty Contact** Mr. Steve Martin  
 Chair, Department of Computer Information Systems  
 Associate Professor, Computer Information Systems  
 Carter Hall 106  
 Phone: (580) 349-1456  
 E-mail: stevem@opsu.edu

<b>Business Administration (AS)</b>	<b>60</b>
<b>CIS Concentration</b>	<b>Semester Hours</b>
<b><u>Student Success Seminar</u></b>	<b>1</b>
Ucss 1111-Student Success Seminar	
<b><u>Communication</u></b>	<b>6</b>
Engl 1113-Freshman English I	
Engl 1213-Freshman English II	
<b><u>Mathematics</u></b>	<b>3</b>
Math 1513-College Algebra OR	
Math 1523-Modeling and Basic Statistics	
<b><u>American History and Government</u></b>	<b>6</b>
Hist 1313-U.S. Hist 1492-1877 OR	
Hist 1323-U.S. Hist 1877-Present	
Pols 1013-American Government	
<b><u>Social/Behavioral Sciences</u></b>	<b>6</b>
Badm 2113-Macro Economics	
Geography, history, sociology or psychology	3
<b><u>Natural Sciences</u></b>	<b>8</b>
Physical Science lab course	4
Biological Science lab course	4
<b><u>Humanities</u></b>	<b>6</b>
Choose from humanities, music appreciation, music history, art appreciation, literature, upper level foreign language, introduction to theater, world history, AND/OR world religion. No activity courses will count.	
<b><u>Liberal Arts and Science Electives</u></b>	<b>1</b>
(Technical Writing, Speech Communications, or Spanish strongly recommended)	
<b><u>Concentration</u></b>	<b>23</b>
Acct 2103-Financial Accounting	
Acct 2203-Managerial Accounting	
Badm 2023-Professional Skills in the Workplace	
Cis 1113-Introduction to CIS OR	
Cis 2013-Information Systems for Business	
<b>Choose 9 hours from the following:</b>	
Cis 1983-Logic and Design	
Cis 2113-HTML/Web Page Design	
Cis 2323-Networking Fundamentals	
Cis 2513-Database Use/Data Analysis	
Cis 2723-Introduction to Operating Systems	
Cis 2803-Managing/Maintaining Comp. HW	
Cis 2813-Managing/Maintaining Comp. SW	
Cis 2823-Applied Networking	
CIS Department approved electives	2

**Faculty Contact** Dr. Michael Bozeman  
 Assistant Professor, Criminal Justice  
 Director, Criminal Justice  
 Hamilton Hall 202  
 Phone: (580) 349-1521  
 E-mail: michael.bozeman@opsu.edu

<b>Criminal Justice (AS)</b>	<b>60</b>
<b>Semester Hours</b>	
<b><u>Student Success Seminar</u></b>	<b>1</b>
Ucss 1111-Student Success Seminar	
<b><u>Communication</u></b>	<b>6</b>
Engl 1113-Freshman English I	
Engl 1213-Freshman English II	
<b><u>Mathematics</u></b>	<b>3</b>
Math 1513-College Algebra OR	
Math 1473-Quantitative Reasoning OR	
Math 1523-Modeling and Basic Statistics	
<b><u>American History and Government</u></b>	<b>6</b>
Hist 1323-U.S. History 1877-Present	
Pols 1013-American Government	
<b><u>Social Science</u></b>	<b>6</b>
Psyc 1113-General Psychology	
Soc 1113-Elements of Sociology	
<b><u>Natural Science</u></b>	<b>8</b>
Biol 1304-Principles of Biology I	
Easc 1114-Physical Geology	
<b><u>Humanities</u></b>	<b>6</b>
Choose from humanities, music appreciation, music history, art appreciation, literature, upper level foreign languages, introduction to theater, world history, and/or world religion. No activity courses will count.	
<b><u>Liberal Arts and Science Electives</u></b>	<b>1</b>
<b><u>Concentration/Core</u></b>	<b>18</b>
CJ 1013-Introduction to Law Enforcement	
CJ 1033-Criminal Law	
CJ 2333-Community Relations and Ethics	
CJ 2063-Criminal Investigations I	
CJ 2073-Criminal Investigations II	
CJ 2083-Organization and Administration of Law Enforcement	
<b><u>Criminal Justice Electives</u></b>	<b>5</b>

**Faculty Contact** Mr. Matthew Carter  
 Chair, Department of Industrial Technology  
 Assistant Professor, Computer Information Systems  
 Carter Hall 104B  
 Phone: (580) 349-1454  
 E-mail: matthewc@opsu.edu

<b>Technology (AAS)</b>	<b>60</b>
<b>Semester Hours</b>	
<b><u>Drafting and Industrial Technology-Option</u></b>	<b>60</b>
<b><u>Student Success Seminar</u></b>	<b>1</b>
Ucss 1111-Student Success Seminar	
<b><u>Communication</u></b>	<b>6</b>
Engl 1113-Freshman English I	
Engl 1213-Freshman English II	
<b><u>American History and Government</u></b>	<b>6</b>
Hist 1313-U.S. Hist. 1492-1877 OR	
Hist 1323-U.S. Hist. 1877-Present	
Pols 1013-American Government	
<b><u>Guided Electives</u></b>	<b>3</b>
Science, humanities, world religion, mathematics, communications, behavioral science, economics, marketing, or CIS	
<b><u>Technical-Occupational Specialty Courses</u></b>	<b>29</b>
<b>Required Core (24)</b>	
Indt 1012-Drafting Technology	
Indt 1013-Woodworking Fundamentals	
Indt 1103-Applied Electricity I	
Indt 1222-General Metals Processing	
Indt 1432-Construction Skills and Safety	
Indt 1433-Welding Level I	
Indt 2013-Machine Wood Technology	
Indt 2113-Introduction to Computer Aided Drafting	
Indt 2423-Welding Level II	
<b>Electives - choose 5 hours from the following:</b>	
Indt 1032-Engineering Drafting	
Indt 2100-Selected Topics in Technology	
Indt 2203-DC/AC Circuits	
<b><u>Support and Related Courses</u></b>	<b>15</b>
Courses that are guided electives which enhance the degree curriculum. These courses are required to bring the total to 60 hours for graduation.	

**Faculty Contact** Dr. Justin Collins  
 Chair, Department of Biology  
 Professor of Biology  
 Science and Agriculture Building 218  
 Phone: (580) 349-1522  
 E-mail: jkcollins@opsu.edu

<b>Technology (AAS)</b>	<b>60</b>
<b>Fire Protection-Option</b>	<b>Semester Hours</b>
<b><u>Student Success Seminar</u></b>	<b>1</b>
Ucss 1111-Student Success Seminar	
<b><u>Communications</u></b>	<b>9</b>
Engl 1113-Freshman English I	
Engl 1213-Freshman English II	
Comm 1113-Speech Communication	
<b><u>Mathematics</u></b>	<b>3</b>
Math 1513-College Algebra OR	
Math 1473-Quantitative Reasoning OR	
Math 1523-Modeling and Basic Statistics	
OR Math 1715-College Algebra & Trigonometry	
<b><u>American History and Government</u></b>	<b>6</b>
Hist 1313-U.S. Hist. 1492-1877 OR	
Hist 1323-U.S. Hist. 1877-Present	
Pols 1013-American Government	
<b><u>Technical-Occupational Speciality Courses</u></b>	<b>31</b>
Fpst 1113-Fire Fighter I Certification	
Fpst 1141-Emergency Vehicle Operation	
Fpst 1313-Building Construction for FPST	
Fpst 1413-Fire Service Instructor	
Fpst 1513-Fire Safety Education Practices	
Fpst 2111-Incident Management System	
Fpst 2213-Fire Protection Systems	
Fpst 2223-Fire Prevention	
Fpst 2314-Fire Protection Strategies and Tactics	
Fpst 2323-Hazardous Materials Operations	
Fpst 2444-Leadership and Supervision	
<b><u>Support and Related Courses</u></b>	<b>10</b>
Chem 1135-General Chemistry	
Ems 1145-Emergency Medical Technician	

**Faculty Contact** Mr. Matthew Carter  
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 Assistant Professor, Computer Information Systems  
 Carter Hall 104B  
 Phone: (580) 349-1454  
 E-mail: matthewc@opsu.edu

<b>Technology (AAS)</b>	<b>60</b>
<b>Industrial Technology-Option</b>	<b>Semester Hours</b>
<b><u>Student Success Seminar</u></b>	<b>1</b>
Ucss 1111-Student Success Seminar	
<b><u>Communications</u></b>	<b>6</b>
Engl 1113-Freshman English I	
Engl 1213-Freshman English II	
<b><u>American History and Government</u></b>	<b>6</b>
Hist 1313-U.S. Hist. 1492-1877 OR	
Hist 1323-U.S. Hist. 1877-Present	
Pols 1013-American Government	
<b><u>Guided Electives</u></b>	<b>5</b>
Science, humanities, world religion, mathematics, communications, behavioral science, economics, marketing, or CIS	
<b><u>Technical-Specialty Courses</u></b>	<b>27</b>
<b>Required Core (24)</b>	
Indt 1012-Drafting Technology	
Indt 1013-Woodworking Fundamentals	
Indt 1103-Applied Electricity I	
Indt 1222-General Metal Processing	
Indt 1432-Construction Skills and Safety	
Indt 1433-Welding Level I	
Indt 2013-Machine Wood Technology	
Indt 2113-Introduction to Computer Aided Drafting	
Indt 2423-Welding Level II	
<b>Electives from (3)</b>	
Indt 2100-Selected Topics	
Indt 2203-AC/DC Circuits	
<b><u>Support and Related Courses</u></b>	<b>15</b>
Courses that are guided electives which enhance the degree curriculum. These courses are required to bring the total to 60 hours for graduation.	

**Faculty Contact** Mr. Matthew Carter  
 Chair, Department of Industrial Technology  
 Assistant Professor, Computer Information Systems  
 Carter Hall 104B  
 Phone: (580) 349-1454  
 Email: matthewc@opsu.edu

<b>Technology (AAS)</b>	<b>60</b>
<b>Metal Technology-Option</b>	<b>Semester Hours</b>
<b><u>Student Success Seminar</u></b>	<b>1</b>
Ucss 1111-Student Success Seminar	
<b><u>Communications</u></b>	<b>6</b>
Engl 1113-Freshman English I	
Engl 1213-Freshman English II	
<b><u>American History and Government</u></b>	<b>6</b>
Hist 1313-U.S. Hist. 1492-1877 OR	
Hist 1323-U.S. Hist. 1877-Present	
Pols 1013-American Government	
<b><u>Guided Electives</u></b>	<b>4</b>
Science, humanities, world religion, mathematics, communications, behavioral science, economics, marketing, or CIS	
<b><u>Liberal Arts/Science Elective</u></b>	<b>1</b>
<b><u>Technical-Specialty Courses</u></b>	<b>27</b>
<b>Required Core (24)</b>	
Indt 1012-Drafting Technology	
Indt 1013-Woodworking Fundamentals	
Indt 1103-Applied Electricity I	
Indt 1222-General Metal Processing	
Indt 1432-Construction Skills and Safety	
Indt 1433-Welding Level I	
Indt 2013-Machine Wood Technology	
Indt 2113-Introduction to CAD	
Indt 2423-Welding Level II	
<b>Electives (3)</b>	
Indt 2100-Select Topics	
<b><u>Support and Related Courses</u></b>	<b>15</b>
Courses that are guided electives which enhance the degree curriculum. These courses are required to bring the total to 64 hours for graduation.	

**Faculty Contact** Mr. Matthew Carter  
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 Assistant Professor, Computer Information Systems  
 Carter Hall 104B  
 Phone: (580) 349-1454  
 Email: matthewc@opsu.edu

<b>Technology (AAS)</b>	<b>60</b>
<b>Technology-Option</b>	<b>Semester Hours</b>
To be admitted to candidacy for the degree, the student must have completed a one-year technical program at an institution accredited by a regional accrediting agency. If the credit earned is from a non-accredited institute, the student transferring to OPSU must use the same procedure as regular college students from non-accredited institutions. Vocational technical transferred credit will be granted upon completion of graduation requirements.	
<b><u>Student Success Seminar</u></b>	<b>1</b>
Ucss 1111-Student Success Seminar	
<b><u>Communication</u></b>	<b>6</b>
Engl 1113-Freshman English I	
Engl 1213-Freshman English II	
<b><u>American History and Government</u></b>	<b>6</b>
Hist 1313-U.S. Hist. 1492-1877 OR	
Hist 1323-U.S. Hist. 1877-Present	
Pols 1013-American Government	
<b><u>Liberal Arts/Science Elective</u></b>	<b>1</b>
<b><u>Guided Electives</u></b>	<b>4</b>
Science, humanities, world religion, mathematics, communications, behavioral science, economics, marketing, or CIS	
<b><u>Technical Specialty</u></b>	<b>29-32</b>
Transferred from an approved technical program	
<b><u>Support and Related Courses</u></b>	<b>10-13</b>
Courses that are guided electives which enhance the degree curriculum. These courses are required to bring the total to 60 hours for graduation.	

**Faculty Contact** Dr. Justin Collins  
 Chair, Department of Biology  
 Professor, Biology  
 Science and Agriculture Bulding 218  
 Phone: (580) 349-1522  
 E-mail: jkcollins@opsu.edu

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**Technology (AAS) 60 Semester Hours**  
**Emergency Medical Services-Option**

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<b><u>Student Success Seminar</u></b>	<b>1</b>
Ucss 1111-Student Success Seminar	
<b><u>Communications</u></b>	<b>6</b>
Engl 1113-Freshman English I	
Engl 1213-Freshman English II	
<b><u>Mathematics</u></b>	<b>3</b>
Math 1513-College Algebra OR	
Math 1473-Quantitative Reasoning OR	
Math 1523-Modeling and Basic Statistics OR	
Math 1715-College Algebra & Trigonometry	
<b><u>American History and Government</u></b>	<b>6</b>
Hist 1323-American History 1877-Present	
PolS 1103-American Government and Politics	
<b><u>Natural Sciences</u></b>	<b>9</b>
Chem 1135-General Chemistry I	
Biol 1304-Principles of Biology	
<b><u>Required Core</u></b>	<b>30</b>
Ems 1141-Emergency Vehicle Operation	
Ems 1145-Emergency Medical Tech-Basic	
Ems 1345-Paramedic I	
Ems 2111-Incidence Management Systems	
Ems 2333-Rescue Awareness	
Ems 2545-Paramedic II	
Ems 2555-Paramedic III	
<b><u>Support and Related Courses</u></b>	<b>5</b>
Biol 2205-Human Physiology	

**Faculty Contact** Mr. Matthew Carter  
 Chair, Department of Industrial Technology  
 Assistant Professor, Computer Information Systems  
 Carter Hall 104B  
 Phone: (580) 349-1454  
 Email: matthewc@opsu.edu

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**Wind Energy/Maintenance Technology 30**  
**Certificate Program Semester Hours**

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This certificate of completion provides focused instruction and the basic knowledge requirements to enter the wind-energy maintenance, beef/pork production, and the oil and gas industry professions. The program takes approximately two semesters to complete and includes professional development, electricity principles, basic fluid power programmable logic controllers, AC/DC circuits, computer networking, and logic and design.	
<b><u>Required</u></b>	<b>21</b>
Ucss 1111-Student Success Seminar	
Hpe 2102-First Aid	
Math 1513-College Algebra OR	
Math 1473-Quantitative Reasoning	
Indt 1103-Applied Electricity Principles	
Indt 2203 AC/DC Circuits	
Indt 3303-Programmable Logic Controllers	
Indt 3663-Hydraulics and Pneumatics	
Cis 2223-Micro Applications	
<b><u>Electives</u></b>	<b>9</b>
<b>Choose 9 hours from:</b>	
Cis 1001-Computer Literacy	
Cis 1983-Logic and Design	
Indt 2100 (1-5 hours)-Selected Topics in Technology	
Indt 1012-Drafting Technology	
Indt 1032-Engineering Drafting	
Indt 2113-Introduction to Computer Aided Drafting	
Indt 3643-Power Mechanics I	
Indt 1222-General Metals Processing	
Indt 1433-Welding Level I	
Indt 2423-Welding Level II	
Indt 3323-Welding Level III	
Indt 4623-Welding Level IV	



**Faculty Contact** Dr. Justin Collins  
 Chair, Department of Biology  
 Professor of Biology  
 Science and Agriculture Building 218  
 Phone: (580) 349-1522  
 E-mail: jkcollins@opsu.edu

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<b>Emergency Medical Technician (EMT) Certificate Program</b>	<b>30 Semester Hours</b>
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Emergency Medical Technicians provide out of hospital emergency medical care and transportation for critical and emergent patients who access the emergency medical services (EMS) system. EMTs have the basic knowledge and skills necessary to stabilize and safely transport patients ranging from non-emergency and routine medical transports to life threatening emergencies. Emergency Medical Technicians function as part of a comprehensive EMS response system, under medical oversight. Emergency Medical Technicians perform interventions with the basic equipment typically found on an ambulance. Emergency Medical Technicians are a critical link between the scene of an emergency and the health care system.

[From the: National EMS Scope of Practice Model]

<b><u>Required</u></b>	<b>30</b>
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Engl 1113-Freshman Composition I  
 Engl 1213-Freshman Composition II  
 Math 1513-College Algebra  
 Hist 1313-U.S. History 1492-1877 OR  
     Hist 1323-U.S. History 1877-Present  
 Pols 1013-American Government  
 Chem 1135-General Chemistry I  
 Biol 1304-Principles of Biology I  
 Ems 1145-Emergency Medical Technician  
 Ems 1141-Emergency Vehicle Driver Technician

**Faculty Contact** Dr. Justin Collins  
 Chair, Department of Biology  
 Professor of Biology  
 Science and Agriculture Building 218  
 Phone: (580) 349-1522  
 E-mail: jkcollins@opsu.edu

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<b>Advanced Emergency Medical Technician (AEMT) Certificate Program</b>	<b>30 Semester Hours</b>
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The primary focus of the Advanced Emergency Medical Technician is to provide basic and limited advanced emergency medical care and transportation for critical and emergent patients who access the emergency medical system. This individual possesses the basic knowledge and skills necessary to provide patient care and transportation. Advanced Emergency Medical Technicians function as part of a comprehensive EMS response, under medical oversight. Advanced Emergency Medical Technicians perform interventions with the basic and advanced equipment typically found on an ambulance. The Advanced Emergency Medical Technician is a link from the scene to the emergency health care system.

[From the: National EMS Scope of Practice Model]

<b><u>Required</u></b>	<b>31</b>
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Engl 1113-Freshman Composition I  
 Engl 1213-Freshman Composition II  
 Math 1513-College Algebra  
 Hist 1313-U.S. History 1492-1877 OR  
     Hist 1323-U.S. History 1877-Present  
 Pols 1013-American Government  
 Chem 1135-General Chemistry I  
 Ems 1145-Emergency Medical Technician  
 Ems 1141-Emergency Vehicle Driver Technician  
 Ems 1245-Advanced Emergency Medical Technician

**Faculty Contact** Dr. Justin Collins  
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 Professor of Biology  
 Science and Agriculture Building 218  
 Phone: (580) 349-1522  
 E-mail: jkcollins@opsu.edu

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**Fire Protection and Safety Training 30**  
**(FPST) Semester Hours**  
**Certificate Program**

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The certificate meets the NFPA 1001 standard, which identifies the minimum job performance requirements for career and volunteer fire fighters whose duties are primarily structural in nature. The courses provide a combination of classroom study, field drills, and training evolutions to prepare a fire fighter to perform most fire-ground functions under supervision of the training officer or experienced fire fighter personnel.

**Required 30**

Engl 1113-Freshman Composition I  
 Engl 1213-Freshman Composition II  
 Math 1513-College Algebra  
 Hist 1313-U.S. History 1492-1877 OR  
     Hist 1323-U.S. History 1877-Present  
 Pols 1013-American Government  
 Fpst 1113-Fire Fighter I  
 Fpst 1213-Principles of Emergency Services  
 Fpst 1313-Building Construction for Fire Protection  
 Fpst 2111-Incident Management Systems  
 Fpst 1411-Emergency Vehicle Driver Training  
 Fpst 1111-Hazardous Materials Awareness  
 Fpst 2323-Hazardous Materials Operations

# Pre-Professional Programs

As a service to those students who find it economical and convenient to attend this university for two or three years before they enter professional schools, OPSU offers pre-professional courses.

This section lists such courses generally required by professional schools. It is suggested, however, that the pre-professional student follow explicitly the requirements found listed in the catalog of the school of his/her choice.

**These plans of study do not qualify as a major at OPSU.**

## Pre-Engineering

The student who wishes to earn an engineering degree may follow one of the two-year plans outlined in this section. She/he may complete the requirements for the engineering degree in four years—two at OPSU and two elsewhere.

Students making satisfactory scores on advanced standing examinations in college algebra and trigonometry may follow Plan A. Other students must follow Plan B.

### Recommended Plan of Study

#### Freshman Year

First Semester	Credit
General Chemistry I	5
Freshman English I	3
Student Success Seminar	1
Drafting Technology	2
College Algebra and Trig.	5

Second Semester	Credit
General Chemistry II	5
Freshman English II	3
Calculus I	4
Speech Communication	3
American Government	3

#### Sophomore Year

First Semester	Credit
Calculus II	4
General Physics I	4
Recommended Electives	
Humanities	2-5
General Psychology	3

Second Semester	Credit
History	3
General Physics II	4
Recommended Electives	
Humanities	5
Differential Equations	3

## Pre-Law

Law schools have a wide variety of requirements that make it advisable for pre-law students to plan their undergraduate programs with a particular law school in mind. However, most law schools will accept good students with undergraduate degrees in any one of a variety of majors such as English, business administration, accounting, history, economics, or any other strongly academic programs. The most important criteria include a good academic record and a high score on the LSAT test.

## Pre-Professional Curricula for Health Related and Other Biological Fields

Students planning to enroll in a health-related or biological field should allow themselves a two, three, or four-year course of study at OPSU. All or the majority of the courses taken during this period will transfer to institutions offering the professional degrees in the specific area. It is recommended that a study plan for a degree in biology, chemistry, computer information systems, animal science, or natural science be followed while enrolled in a pre-professional curriculum to allow a student an alternative in case she/he fails to pursue the professional degree.

### Pre-Dental

The standard dental college requires not less than 60 semester hours of college work for entrance and a minimum GPA of 2.0 on a 4.0 scale. Coursework should include the following:

College Algebra and Trigonometry	5-6 hours
Biology	8 hours
English	6 hours
Inorganic Chemistry	8 hours
Organic Chemistry	8 hours
Physics	8 hours

Elective courses:

biology, economics, philosophy, political science, psychology, sociology, speech, computer science, or business

### Pre-Dental Hygiene

Individuals with bachelor degrees in dental hygiene are qualified to provide direct limited services, under the direct supervision of a dentist or group of dentists, to patients seeking dental care. They are also qualified to instruct in dental health in public and private institutions as well as filling positions as clinical instructors and administrators.

Most schools granting dental hygiene degrees require two years (60 hours) of general study prior to making application for admission. Students must have a minimum GPA of 2.5 on a 4.0 scale. The following courses are suggested.

U.S. History and American Government	6 hours
Biology	18 hours
English	6 hours
Sociology	3 hours
Inorganic Chemistry	5 hours
Organic Chemistry	5 hours
Modeling and Basic Statistics	3 hours
Psychology	6 hours
Speech Communication	3 hours
Nutrition	3 hours

Elective courses:

History, biology, business, english, health, foreign language, computer science, two years. High school language or two college semesters, western civilization, and humanities.

### The Physicians' Associate Program

The program is designed to educate students to become physicians' associates who can function at the sophisticated level of competence in order that they may increase the efficiency of physicians in a variety of medical settings. The associates will work under the supervision of licensed physicians to provide service within limitations provided by law. The associates will have the mobility to assist physicians in their hospital endeavors or office practices in performing procedures or tasks formerly undertaken by the physician.

A student may take at least 90 hours of work at an accredited college or university before transferring to an institution granting this degree. A minimum GPA of 2.75 on a 4.0 scale is required. The following courses are suggested for the first six semesters of college work:

Freshman English	6 hours
American Government and U.S. History	6 hours
Biology	22 hours
Chemistry	24 hours
Physics	8 hours
Trigonometry/College Algebra	5-6 hours
Electives	38 hours

### Pre-Medical

The standard medical college requires a baccalaureate degree for admission. Students must present evidence that they have attained an average of 3.0 grade points per credit hour in the prescribed subjects with not less than a "C" in any prescribed subject in order to be eligible for consideration by a committee of admission.

A reading knowledge of a modern language is desirable, and the prospective student of medicine is advised to take at least one modern language for its practical and cultural value. The following courses are required.

Biochemistry	4 hours
Biology	12 hours
Freshman English	6 hours
Inorganic Chemistry	10 hours
Organic Chemistry	10 hours
Physics	8 hours
American Government and U.S. History	6 hours
Electives	9 hours

Courses in modern languages, business, psychology, sociology, philosophy, computer science, and political science are desirable. MCAT is required.

### Pre-Nursing

Most pre-licensure nursing programs require general education and science courses to be completed prior to admission. At this time OPSU does not offer a pre-licensure nursing program.

Students aspiring to become registered nurses will declare biology as a major and complete general education and science courses in anticipation of admission to a pre-licensure nursing program. Upon completion and licensure as a Reregistered Nurse, students are eligible for admission to the RN to BSN Program at OPSU.

### Pre-Optometry

Most colleges of optometry require three years of college work (90 or more semester hours) with a 2.5 GPA for admission. The following courses are required:

College Algebra and Trigonometry	5-6 hours
Biology	2-16 hours
Freshman English	6 hours
Inorganic Chemistry	10 hours
Organic Chemistry	10 hours
Physics	8 hours
Computer Science	3 hours
American Government and U.S. History	6 hours
Biochemistry	4 hours

A student may satisfactorily follow the regular degree program with a major in Biology or Chemistry.

### Pre-Pharmacy

The colleges of pharmacy require that three of the five years for a bachelor's degree in pharmacy be spent at a college of pharmacy. The first two years may be spent at another college. The curriculum for those two years should include the following:

American Government and U.S. History	6 hours
Biology	9-10 hours
Trigonometry	3 hours
Freshman English	6 hours
Inorganic Chemistry	10 hours
Organic Chemistry	10 hours
Physics	8 hours
Calculus	4 hours
World History	3 hours
Economics (not Agriculture Economics)	3 hours
Elective courses selected from:	
Biology, sociology, business, computer science, psychology, history, or humanities.	

### Pre-Veterinary Medicine

The standard veterinary medical college requires not less than 60 semester hours, exclusive of military training and physical education and a minimum GPA of 2.80 on a 4.0 scale. The minimum requirements of the pre-veterinary medicine courses are:

American Government and U.S. History	6 hours
Biology	16 hours
Trigonometry	3 hours
Genetics	3 hours
Freshman English	6 hours
Inorganic Chemistry	10 hours
Organic Chemistry	10 hours
Biochemistry	4 hours
Physics	8 hours
Animal Nutrition	3 hours
Humanities/Social Science	6 hours
Elective courses selected from: Accounting, animal science, biology, business, business law, chemistry, economics, psychology, sociology, or speech communications.	

## Occupational Therapy

Occupational therapy is a health profession which contributes to the physical and emotional independence and well-being of an individual through the use of selected activity.

The student entering this profession must have an affection for people, an insight into human relationships, emotional stability, and a sympathetic attitude toward illness and disability.

Students entering this field can take two years of prerequisites of 60 hours and have a GPA of 2.5 on a scale of 4.0 before transferring to a school granting a degree in occupational therapy. A grade of "C" is required on prerequisite courses. Recommended courses include the following:

American Government and U.S. History	6 hours
Biochemistry	4 hours
Biology	10 hours
Freshman English	6 hours
Humanities/Fine Arts	12 hours
Inorganic Chemistry	10 hours
Organic Chemistry	10 hours
Physics	8 hours
Social and Behavioral Science	12 hours
Statistics	3 hours
Medical Terminology	3 hours
Electives	9 hours

## Physical Therapy

Physical therapy is a field of specialized allied health care. Physical therapy deals not only with the early stages of treatment but also with long range care and planning of realistic goals for the rehabilitation of patients with certain disabilities.

The following are basic requirements to be taken prior to application to a school for completion of a degree. A minimum of 64 semester hours with a GPA of 2.75 on a 4.0 scale and a grade of "C" or better in all courses are expected. Also required will be the results of the Allied Health Professions Admissions (AHPA) test.

American Government and U.S. History	6 hours
Biology	13-14 hours
Biochemistry	4 hours
Freshman English and Speech	9 hours
Humanities	6-9 hours
Inorganic Chemistry	10 hours
Organic Chemistry	10 hours
Physics	8 hours
Psychology	9 hours
Statistics	3 hours
Elective Courses selected from:	
Mathematics, economics, humanities, nutrition, sociology, first aid, or computer science.	

# Baccalaureate Programs

## College of Agriculture, Science, and Nursing

### Interim Dean:

Mrs. Shawna Tucker  
Assistant Professor, Mathematics  
Science and Agriculture Building, 221  
Phone: (580) 349-1534  
E-mail: shawna.tucker@opsu.edu

The College of Agriculture, Science, and Nursing consists of four departments. The Department of Agriculture offers programs of study leading toward the Bachelor of Science degree in Agribusiness, Agriculture Education, Agronomy, and Animal Science. The Department of Science and Emergency Services offers programs leading to the Bachelor of Science degrees in Biology, Chemistry, and Physical Science. The Department of Nursing offers a program leading to a Bachelor of Science in Nursing. The Department of Mathematics and Physics offers a program leading to a Bachelor of Science in Mathematics. In addition, the College of Agriculture, Science, and Nursing offers two year programs leading to an Associate of Science degree or an Associate of Applied Science degree. These include: Associate of Science degree in Agriculture, Associate of Science degree in General Studies with a concentration in a selected area, and Associate of Applied Science in Fire Protection or Emergency Medical Services. The College also offers Certificate programs in Emergency Medical Technician, Advanced Emergency Medical Technician, and Fire Protection and Safety Training.

### Agribusiness

#### Faculty Contact

Mr. Daren Stephens  
Instructor, Agriculture  
Science and Agriculture Building, 116  
Phone: (580) 349-1510  
E-mail: dstephens@opsu.edu

The College of Agriculture, Science, and Nursing in cooperation with the College of Business and Technology, offers a program leading to a Bachelor of Science degree in agribusiness. The requirements for the degree are outlined on this page.

### Agribusiness (BS)

**120 Semester Hours**

<b><u>General Education</u></b>	<b>40</b>
Math 1523-Modeling and Basic Statistics	
<b><u>Plant Science</u></b>	<b>7</b>
Agri 1213-Fundamentals of Plant Science	
Agri 2124-Fundamentals of Soil Science	
<b><u>Animal Science</u></b>	<b>8</b>
Ansi 1124-Introduction to Animal Science	
Ansi 2124-Livestock Feeding	
<b><u>Agriculture</u></b>	<b>4</b>
Ag 1011-Introduction to the Agriculture Industry	
Ag 4983-Agriculture Marketing	
<b><u>Business</u></b>	<b>15-16</b>
Acct 2103-Elements of Accounting	
Badm 3123-Business Law I OR	
Badm 3323-Business Law II	
Cis 2223-Micro Applications for Business Decisions	
Mktg 3913-Principles of Marketing OR	
Ag 3213-Quantitative Agriculture Economics	
Mgmt 3813-Principles of Management OR	
Ag 3144-Modern Agricultural Management	
<b><u>Agriculture Electives</u></b>	<b>14</b>
<b><u>Business Electives</u></b>	<b>12</b>
<b><u>General Electives</u></b>	<b>19-20</b>
Sufficient courses to bring upper level hours to 40 credit hours and total to 120 semester hours for graduation.	
<b><u>Minor</u></b>	

Upon completion of the agribusiness major, students must have sufficient courses to fulfill minor requirements in any field in which a minor is offered. Hours designated for the chosen minor are included in the 120 semester hours required for the major.

A grade of C or better is required for all courses within the major. An overall GPA of 2.0 is required for graduation.

**Agriculture Economics (Minor)****18 Semester Hours****SUGGESTED COURSES:**

Ag 4983- Agricultural Marketing  
 Ag 3144- Modern Agricultural Management  
 Ag 3573- Money and Banking  
 Ag 3113- Intermediate Microeconomics  
 Ag 3123- Intermediate Macroeconomics  
 Ag 3213- Quantitative Agricultural Economics

**Agriculture Education****Faculty Contact:**

Dr. Nels Peterson  
 Director, Agriculture Education  
 Professor, Agriculture Education  
 Science and Agriculture Building, 227  
 Phone: (580) 349-1506  
 E-mail: nels.peterson@opsu.edu

<b>Agriculture Education (BS)</b>	<b>120-121</b>
	<b>Semester Hours</b>

<b><u>General Education</u></b>	<b>42</b>
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<b>Communications</b>	<b>9</b>
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\*Engl 1113-Freshman English I

\*Engl 1213-Freshman English II

\*Comm 1113-Speech Communication

<b>Mathematics</b>	<b>3</b>
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\*Choose at least one from the following:

Math 1473-Quantitative Reasoning

Math 1513-College Algebra

<b>History and Political Science</b>	<b>6</b>
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\*Pols 1013-American Government

\*Choose at least one from the following:

Hist 1313-U.S. History 1492-1877

Hist 1323-U.S. History 1877-Present

<b>Natural Science</b>	<b>8</b>
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\*Biological Science - four hours

\*Physical Science - four hours

<b>Social and Behavioral Sciences</b>	<b>6</b>
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Choose at least one course from:

Sociology/Psychology

Economics

\*Ag/Econ 2343-Agricultural Economics

<b>Cross Cultural</b>	<b>3</b>
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Educ 2233-Diversity in Education

<b>Humanities</b>	<b>6</b>
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\*Choose six hours from the following areas: philosophy, humanities, music ties, music appreciation, art appreciation, literature, introduction to theater, world history, music history, world religion, others as approved by the Vice President for Academic Affairs. (Must include courses from two areas. No activity courses will count)

<b>Student Success</b>	<b>1</b>
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\*Ucss 1111-Student Success Seminar

**Agriculture Education Major Course Work****45-46 hours**

Ag 1011-Introduction to the Agriculture Industry

Ag 1124-Farm and Ranch Management

Ag 4983-Agricultural Marketing

Agme 1433-Welding Level I

Agme 3323-Welding Level III

Agme 3463-Power Mechanics I

Agrn 1213-Fundamentals of Plant Science



Agrn 2124-Fundamentals of Soil Science  
 Agrn 3223-Grain, Oil Seeds, and Pulse Crops  
 Agrn 3333-Natural Resource Conservation  
 Agrn 4113-Fundamentals of Weed Science  
 Ansi 1124-Introduction to Animal Science  
 Ansi 2112-Introduction to Live Animal Evaluation

OR

Ansi 2182-Meat Evaluation, Classification and Grade

Ansi 2124-Livestock Feeds and Feeding

Ansi 4543-Sheep Science and Management

OR

Ansi 4613-Beef Production and Management

OR

Ansi 4643-Swine Production and Management

OR

Ansi 3624-Horse Science OR

Ansi 3333- Meats

Ansi 4862-Animal Science Seminar

Ansi 4902-Animal Science Problems

**Professional Education 33 hours**

Aged 3103-Introduction to Teaching Agriculture Education

Aged 3203-Planning the Community Program

Aged 3331-Technology in Agricultural Education

Educ 3213-Human Development: Child and Adolescent Psychology

\*Aged 4103-Methods of Teaching and Management in Agriculture Education

\*Aged 4362-Agricultural Education Tests and Measurements

\*Educ 3233-Education of the Exceptional Child

\*Educ 4313-Educational Psychology

**\*Restricted Classes - Must be admitted to Teacher Education Program prior to enrolling.**

**\*\*Educ 4720-Student Teaching in Secondary Schools**

**\*\*Restricted Classes - Must be admitted to Professional Semester prior to enrolling.**

**Competency in Foreign Language 3-4 hours**

All students must show competency in a foreign language at the novice level by:

- Passing a three hour (minimum) college level foreign language course with a C or better, or
- Passing the OPSU Foreign Language Competency Oral Examination.

**Please refer to pages 108-115 for information about the OPSU Teacher Education Program.**

## **Agronomy**

### **Faculty Contact**

Dr. Curtis Bensch

Professor, Agronomy

Science and Agriculture Building, 115

Phone: (580)349-1503

Email: cbensch@opsu.edu

Agronomy is the branch of agriculture that deals with the study of plants, soils, and the environment.

### **Agronomy (BS) 120**

#### **Semester Hours**

#### **General Education 40**

Math 1523-Modeling and Basic Statistics

#### **Agriculture 6**

Ag 1011-Introduction to the Ag Industry

Ag 2343-Agriculture Economics

#### **Agronomy 26**

Agrn 1213-Fundamentals of Plant Science

Agrn 2111-Plant and Seed Identification

Agrn 2124-Fundamentals of Soil Science

Agrn 3223-Grain, Oilseed and Pulse Crops

Agrn 3924-Range Management

Agrn 3343-Integrated Pest Management

Agrn 4113-Weed Science

Agrn 4234-Soil Fertility

Agrn 4571-Agronomy Seminar

#### **Animal Science 8**

Ansi 1124-Introduction to Animal Science

Ansi 2124-Livestock Feeding

#### **Chemistry**

**10** Chem 1135-General Chemistry

Chem 3315-Organic Chemistry

#### **Biology 8**

Biol 1504-Principles of Biology II

Biol 3054-Entomology OR

Biol 3344-Mycology and Plant Pathology

#### **Earth Science 4**

Easc 1114-Physical Geology

#### **Agronomy Electives 7**

#### **Additional Courses 11**

Choose from agronomy, biology, chemistry, earth science, agriculture, animal science, business economics or mathematics. Sufficient courses to bring upper level hours to 40 credit hours and total to 120 semester hours for graduation.

A grade of "C" or better is required for courses within major. Overall GPA of 2.0 is required for graduation.

## Agronomy (Minor) 18 Semester Hours

### Agronomy

At least one-third of the courses must be upper level courses.

## Animal Science

**Department Chair:** Dr. Sandol Johnson  
Associate Professor, Animal Science  
Science and Agriculture Building, 114  
Phone: (580) 349-1508  
E-mail: sandol.johnson@opsu.edu

Animal Science offers practical and technical instruction and training in the selection, breeding, feeding, management, and marketing of all major types of purebred and commercial farm livestock. Instruction in meat science and technology is also emphasized in the areas of fresh and processed meat products.

The department maintains purebred herds of Angus beef cattle, flock of sheep, and a small commercial swine herd. Additionally, the Firestone Meats Lab further enables students to receive training in meat science.

The principle goal of the department is to give the student a thorough working knowledge in the general area of livestock and associated industries; therefore, most laboratory assignments are conducted at the university farm. Students are placed in close contact with various issues confronting producers in the High Plains.

A student may earn a Bachelor of Science degree in Animal Science. Requirements for the degree are outlined in this section. Students also have the option of earning a minor in animal science.

A grade of "C" or better is required for all courses within the major. Overall GPA of 2.0 is required for graduation.

## Animal Science (BS) 120 Equine Option Semester Hours

### General Education 40 Major 27-28

Ag 1011-Introduction to the Agriculture Industry  
Ansi 1124-Introduction to Animal Science  
Ansi 2182-Meat Evaluation OR  
Ansi 3113-Livestock Judging and Meat Evaluation

Ansi 3333-Meats  
Ansi 3543-Animal Nutrition  
Ansi 3643-Applied Animal Nutrition  
Ansi 4333-Livestock Breeding and Improvement  
Ansi 4463-Meat Science  
Ansi 4862-Animal Science Seminar  
Econ 2343-Agriculture Economics

### Agronomic Electives 7

### Chemistry 10

Chem 1135-General Chemistry I  
Chem 3315-Organic Chemistry I  
(or 4 our physical science course)

### Biology 8

Biol 1304-Principles of Biology I OR  
Biol 1504-Principles of Biology II  
Biol Elective (4 credit hours)

### Equine (select from) 9

Ansi 1123-Intro to Equine Science  
Ansi 1132-Equine Evaluation  
Ansi 3624-Horse Science

### Animal Science Electives 7

### Controlled Electives 11-12

Sufficient courses to bring upper level hours to 40 credit hours and total to 120 semester hours for graduation.

### Minor

Upon completion of the Animal Science major, the student will have sufficient courses for a minor in natural science. Hours designated for the chosen minor are included in the 120 semester hours required for the major.

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<b>Animal Science (BS)</b>	<b>120</b>
<b>Science Option</b>	<b>Semester Hours</b>

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<b><u>General Education</u></b>	<b>40</b>
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Math 1523-Modeling and Basic Statistics	
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<b><u>Major</u></b>	<b>26</b>
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Ag 1011-Introduction to the Agriculture Industry	
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Ansi 1124-Introduction to Animal Science	
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Ansi 2124-Livestock Feeding	
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Ansi 3543-Animal Nutrition	OR
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Ansi 3643-Applied Animal Nutrition	
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Ansi 4113-Animal Anatomy and Physiology	
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Ansi 4333-Livestock Breeding and Improvement	
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Ansi 4433-Animal Reproduction	
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Ansi 4463-Meat Science	
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Ansi 4862-Animal Science Seminar	
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<b><u>Agronomic Electives</u></b>	<b>7</b>
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<b><u>Chemistry</u></b>	<b>10</b>
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*Chem 1135-General Chemistry I	
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*Chem 3315-General Organic Chemistry	
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<b><u>Biology</u></b>	<b>8</b>
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*Biol 1304-Principles of Biology I	OR
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*Biol 1504-Principles of Biology II	
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<b><u>Biology Electives</u></b>	<b>8</b>
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<b><u>Animal Science Electives</u></b>	<b>7</b>
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<b><u>Co-requisite requirements</u></b>	<b>8</b>
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Phys 2014-General Physics I	
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Phys 2114-General Physics II	
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<b><u>Controlled Electives</u></b>	<b>6</b>
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Sufficient courses to bring upper level hours to 40 credit hours and total to 120 semester hours for graduation.

<b><u>Minor</u></b>	
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Upon completion of the animal science major, the student will have sufficient courses for a minor in natural science. Hours designated for the chosen minor are included in the 120 semester hours required for the major.

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<b>Animal Science (Minor)</b>	<b>18 Semester Hours</b>
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Ansi 1124-Introduction to Animal Science	<b>4</b>
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Ansi electives	<b>14</b>
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1/3 of courses must be upper-level

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<b>Animal Science (BS)</b>	<b>120</b>
<b>Livestock Production and</b>	<b>Semester Hours</b>
<b>Management Option</b>	

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<b><u>General Education</u></b>	<b>40</b>
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Math 1523-Modeling and Basic Statistics	
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<b><u>Major</u></b>	<b>30-31</b>
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Ag 1011-Introduction to Agriculture Industry	
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Ansi 1124-Introduction to Animal Science	
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Ansi 2182-Meat Evaluation	OR
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Ansi 3113-Livestock Judging and Meat Evaluation	
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Ansi 3333-Meats	
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Ansi 3543-Animal Nutrition	
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Ansi 3643-Applied Animal Nutrition	
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Ansi 4333-Livestock Breeding and Improvement	
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Ansi 4463-Meat Science	
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Ansi 4433-Animal Reproduction	
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Ansi 4862-Animal Science Seminar	
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Econ 2343-Agriculture Economics	
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<b><u>Agronomic Electives</u></b>	<b>7</b>
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<b><u>Biology</u></b>	<b>8</b>
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Biol 1304-Principles of Biology I	OR
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Biol 1504-Principles of Biology II	
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<b><u>Chemistry</u></b>	<b>10</b>
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Chem 1135-General Chemistry I	
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Chem 3315-Organic Chemistry I	
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<b><u>Management</u> (select from)</b>	<b>9</b>
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Mgmt 3813- Principles of Management	
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Mgmt 3873- Small Business Management	
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Mktg 3913- Principles of Marketing	
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Ag 3144- Modern Agriculture Management	
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<b><u>Additional Courses</u></b>	<b>12</b>
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From Animal Science, Agriculture, Biology, Chemistry, Business, or CIS.

<b><u>Controlled Electives</u></b>	<b>3-4</b>
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Ag 2343-Agriculture Economics and sufficient courses to bring upper level hours to 40 credit hours and total to 120 semester hours for graduation.

<b><u>Minor</u></b>	
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Upon completion of the Animal Science major, the student will have sufficient courses for a minor in natural science. Hours designated for the chosen minor are included in the 120 semester hours required for the major.

<b>Animal Science (BS) Meat Science Option</b>	<b>120 Semester Hours</b>
<b><u>General Education</u></b>	<b>40</b>
Math 1523-Modeling and Basic Statistics	
<b><u>Major</u></b>	<b>30-31</b>
Ag 1011-Introduction to Agriculture Industry	
Ansi 1124-Introduction to Animal Science	
Ansi 2182-Meat Evaluation OR	
Ansi 3113-Livestock Judging and Meat Evaluation	
Ansi 2123-Feeds and Feeding	
Ansi 2213-Retail Meat Cutting	
Ansi 3333-Meats	
Ansi 4333-Livestock Breeding and Improvement	
Ansi 4433-Animal Reproduction	
Ansi 4463-Meat Science	
Ansi 4862-Animal Science Seminar	
Econ 2343-Agriculture Economics	
<b><u>Agronomic Electives</u></b>	<b>7</b>
<b><u>Chemistry</u></b>	<b>15</b>
Chem 1135-General Chemistry I	
Chem 2235-General Chemistry II	
Chem 3315-Organic Chemistry I	
<b><u>Biology</u></b>	<b>8</b>
Biol 1304-Principles of Biology I	
Biol 2124-Microbiology	
<b><u>Meat Science</u> (select from)</b>	<b>15</b>
Ansi 3133-Livestock Entomology	
Ansi 3743-Animal Diseases	
Ansi 4113-Animal Anatomy and Physiology	
Ansi 4613-Beef Production and Management	
Ansi 4983-Livestock Sales and Marketing	
Ag 4983-Agriculture Marketing	
<b><u>Controlled Electives</u></b>	<b>4-5</b>
Sufficient courses to bring total hours to 120 and upper level courses to a minimum of 40 hours.	
<b><u>Minor</u></b>	
Upon completion of the Animal Science major, the student will have sufficient courses for a minor in natural science. Hours designated for the chosen minor are included in the 120 semester hours required for the major.	

<b>Animal Science (BS) Nutrition Option</b>	<b>120 Semester Hours</b>
<b><u>General Education</u></b>	<b>40</b>
Math 1523-Modeling and Basic Statistics	
<b><u>Major</u></b>	<b>28</b>
Ag 1011-Introduction to Agriculture Industry	
Ansi 1124-Introduction to Animal Science	
Ansi 3543-Animal Nutrition	
Ansi 3643-Applied Animal Nutrition	
Ansi 4113-Animal Anatomy and Physiology	
Ansi 4333-Livestock Breeding and Improvement	
Ansi 4433-Animal Reproduction	
Ansi 4463-Meat Science	
Ansi 4862-Animal Science Seminar	
Econ 2343-Agriculture Economics	
<b><u>Agronomic Electives</u></b>	<b>7</b>
<b><u>Chemistry</u></b>	<b>15</b>
Chem 1135-General Chemistry I	
Chem 3315-Organic Chemistry I	
Chem 3325-Organic Chemistry II	
<b><u>Biology</u></b>	<b>8</b>
Biol 1304-Principles of Biology I OR	
Biol 1504-Principles of Biology II	
4 hour Biology Elective	
<b><u>Nutrition (select from)</u></b>	<b>16</b>
Ansi 2112-Introduction Live Animal Evaluation	
Ansi 3133-Livestock Entomology	
Ansi 3743-Animal Diseases	
Ansi 4543-Small Ruminant Science	
Ansi 4643-Swine Production and Management	
Ansi 4613-Beef Production and Management	
Ansi 4763-Advanced Ruminant Nutrition	
Ansi 4773-Advanced Non-Ruminant Nutrition	
<b><u>Controlled Electives</u></b>	<b>6</b>
Sufficient courses to bring upper level hours to 40 credit hours and total to 120 semester hours for graduation.	
<b><u>Minor</u></b>	
Upon completion of the animal science major, the student will have sufficient courses for a minor in Natural Science. Hours designated for the chosen minor are included in the 120 semester hours required for the major.	

<b>Animal Science (BS)</b>	<b>120</b>
<b>Wildlife Management Option</b>	<b>Semester Hours</b>
<b><u>General Education</u></b>	<b>40</b>
Math 1523-Modeling and Basic Statistics	
<b><u>Major</u></b>	<b>33</b>
Agrn 1213-Intro to Plant Science	
Agrn 2111-Plant and Seed Identification	
Agrn 2124-Soil Science	
Agrn 3213-Pasture and Forage Crops	
Agrn 3924-Range Management	
Agrn 4413-Natural Resource Conservation	
Ansi 1124- Introduction to Animal Science	
Ansi 3743-Animal Diseases	
Ansi 4333-Livestock Breeding and Improvement	
Ansi 4433-Animal Reproduction	
Ansi 4862-Animal Science Seminar	
<b><u>Chemistry</u></b>	<b>10</b>
Chem 1135-General Chemistry	
Chem 3315-Organic Chemistry	
<b><u>Biology</u></b>	<b>16</b>
Biol 1304-Principles of Biology I	
Biol 1404-Botany	
Biol 3054-Entomology	
Biol 3704-Ecology	
<b><u>Wildlife</u></b>	<b>15</b>
Wild 1012-Introduction to Natural Ecology and Management	
Wild 1014-Introduction to Natural History	
Wild 2013-Ecology and Natural Resources	
Wild 3013-Applied Ecology and Conservation	
Wild 4503-Principles of Wildlife Ecology and Management	
<b><u>Additional Courses</u></b>	<b>6</b>
Choose from Agronomy, Animal Science, Agriculture, Biology or Chemistry	
<b><u>Controlled Electives</u></b>	
Sufficient courses to bring upper level hours to 40 credit hours and total to 120 semester hours for graduation.	

## Department of Science

**Department Chair** Dr. Justin Collins  
 Professor, Biology  
 Science and Agriculture Building 218  
 Phone: (580) 349-1522  
 E-mail: jkcollins@opsu.edu

### Biology Studies

The curriculum in biology acquaints students with the basic biological structures, processes, functions and interrelationships; an appreciation of the Earth's environment; and the philosophy intrinsic to the life sciences. The studies are designed to enable students:

1. To meet the requirements of undergraduate students majoring in biology so that they may pursue this field professionally after graduation or may begin a program of graduate work;
2. To provide a minor for students majoring in other disciplines;
3. To furnish a dynamic background in the life sciences for students planning to teach at the elementary or secondary level;
4. To offer prescribed pre-professional courses for students planning to enter the fields of medicine, nursing, veterinary medicine, dentistry, optometry, forestry, medical technology, and other allied science fields.

The minimum requirements for the bachelor degree in biology are outlined in this section. The requirements for a minor in biology are given also.

<b>Biology (BS)</b>	<b>120</b>
<b>Academic Option</b>	<b>Semester Hours</b>

#### **General Education** **40**

Biol 1304-Principles of Biology I

Chem 1135-General Chemistry I

#### **Mathematics**

Math 1513-College Algebra OR

Math 1715-College Algebra & Trigonometry

#### **Core Courses** **20**

Biol 1504-Principles of Biology II

Biol 2205-Human Physiology

Biol 3024- Genetics

Biol 3813-Biological Statistics

Biol 4014-Cellular/Molecular Biology

#### **Biology Electives** **19**

#### **Physics and Math** **11**

Phys 2014-General Physics I

Phys 2114-General Physics II

Math 1613-Plane Trigonometry

#### **Chemistry Electives** **10**

To include Inorganic and organic courses

#### **Electives** **20**

Sufficient courses to bring upper level hours to 40 credit hours and total to 120 semester hours for graduation.

#### **Minor** **18-22**

Hours designated for the chosen minor are included in the 120 semester hours required for the major.

All biology courses toward a major in biology must have a grade of "C" or better.

---

<b>Biology (BS)</b>	<b>120</b>
<b>Natural Science Option</b>	<b>Semester Hours</b>

---

<b><u>General Education</u></b>	<b>40</b>
---------------------------------	-----------

Biol 1304-Principles of Biology I

Chem 1135-General Chemistry I

**Mathematics**

Math 1513-College Algebra OR

Math 1715-College Algebra & Trigonometry

<b><u>Core Courses</u></b>	<b>20</b>
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Biol 1504-Principles of Biology II

Biol 2205-Human Physiology

Biol 3024- Genetics

Biol 3813-Biological Statistics

Biol 4014-Cellular/Molecular Biology

<b><u>Biology Electives</u></b>	<b>22</b>
---------------------------------	-----------

<b><u>Chemistry Electives</u></b>	<b>10</b>
-----------------------------------	-----------

To include Inorganic and organic courses

<b><u>Electives</u></b>	<b>28</b>
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Sufficient courses to bring upper level hours to 40 credit hours and total to 120 semester hours for graduation.

<b><u>Minor</u></b>	<b>18-22</b>
---------------------	--------------

Hours designated for the chosen minor are included in the 124 semester hours required for the major.

All biology courses toward a major in biology must have a grade of "C" or better.

---

<b>Biology Minor</b>	<b>22</b>
	<b>Semester Hours</b>

Biol 1304-Principles of Biology I

Biol 1504-Principles of Biology II

Biol 2205-Human Physiology

plus other biology courses to bring the total to 22 hours with a grade of "C" or better

## Chemistry Studies

**Faculty Contact:** Dr. Justin Collins  
 Professor, Biology  
 Science and Agriculture Building 218  
 Phone: (580) 349-1522  
 E-mail: jkcollins@opsu.edu

The courses offered in chemistry are designed to meet the anticipated basic needs of those students who wish to continue on to graduate studies in chemistry or closely allied fields. Courses are designed to provide the minimum chemical background for those students majoring in agriculture, pre-dentistry, pre-medicine, pre-veterinary medicine, and other fields which use chemical concepts.

A bachelor of science degree with a major in chemistry is offered by the department along with a minor.

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### Chemistry (BS) 120 Semester Hours

#### Academic Option

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**General Education** 40

**Mathematics**

Math 1513-College Algebra OR

Math 1715-College Algebra & Trigonometry

**Chemistry Major Coursework** 40

Chem 1135-General Chemistry I

Chem 2235-General Chemistry II

Chem 3025-Quantitative Analysis

Chem 3315-Organic Chemistry I

Chem 3325-Organic Chemistry II

Chem 3415-Physical Chemistry I

Chem 3525-Physical Chemistry II

Chem 4024-Biochemistry I

Chem 4031-Seminar

**Co-requisite Requirements** 12

Math 1824-Calculus I

Phys 2014-General Physics I

Phys 2114-General Physics II

**Electives** 28

Sufficient courses to bring upper level hours to 40 credit hours and total to 120 semester hours for graduation.

---

### Minor

### 18 Semester Hours

A minor must be selected from any field in which a minor is offered. Hours designated for the chosen minor are included in the 124 semester hours required for the major.

This program automatically meets general education requirements for physical science and mathematics.

---

### Chemistry Minor

### 19-20 Semester Hours

Chem 1135-General Chemistry I

Chem 2235-General Chemistry II

Chem courses (numbered above 3000) (9-10)

A grade of "C" or better is required for all science classes for the major or minor.



## Physical Science Studies

**Faculty Contact** Dr. Beverly Meyer  
Professor, Earth Science  
Hamilton Hall 310  
Phone: (580) 349-1524  
E-mail: bmeyer@opsu.edu

The degree in physical science offers an academic option for those who desire to seek employment in various science-related fields. This degree exposes students to the subject areas of earth science, chemistry, and physics. This program is considered a major-minor degree.

The physical science program is designed to

1. prepare students to seek careers in various science fields;
2. to help fulfill requirements in the science area of the general education curriculum;
3. to provide students with the opportunity to complete a minor in physical science.

This section also lists the requirements for minors in physical science and natural science.

---

<b>Physical Science (BS)</b>	<b>120</b>
<b>Academic Option</b>	<b>Semester Hours</b>
<b><u>General Education</u></b>	<b>40</b>

---

Biol 1304-Principles of Biology I

Chem 1135-General Chemistry

<b><u>Mathematics</u></b>	<b>3</b>
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Math 1513-College Algebra OR

Math 1715-College Algebra/Trigonometry

<b><u>Earth Science</u></b>	<b>33</b>
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Easc 1114-Physical Geology

Easc 1214-Physical Geography

Easc 2114-Historical Geology

Easc 2014-Natural Hazards

Easc 2214-Environmental Geology

Easc 3014-Astronomy

Easc 3114-Minerals and Rocks

Easc 4000-Seminar (one credit hour)

Easc 4014-Meteorology

<b><u>Physics</u></b>	<b>8</b>
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Phys 2014-General Physics I

Phys 2114-General Physics II

<b><u>Chemistry Electives</u></b>	<b>10-15</b>
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To include inorganic and organic courses

**Electives**

Sufficient courses to bring upper-level hours to 40 credit hours and a total of 120 semester hours for graduation.

<b><u>Minor</u></b>	<b>18</b>
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Hours designated for the chosen minor are included in the 120 semester hours for graduation

All earth science, physics, and chemistry courses toward a major must have a grade of "C" or better.

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<b>Physical Science (Minor)</b>	<b>18</b>
	<b>Semester Hours</b>

---

A total of 18 hours selected from courses in earth science, chemistry, and physics. Must include at least one course from each of the three areas.

For a minor in physical science, all courses must have a "C" or better.

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<b>Natural Science (Minor)</b>	<b>18</b>
	<b>Semester Hours</b>

---

A total of 18 hours selected from the courses in biology, chemistry, earth science, and physics. At least one course must be from biology and one from earth science. Suggested courses include biology 1304 and 1504, earth science 1014, 1114, and 2014, chemistry 1135, and physics 2014.

For a minor in natural science, all courses must have a grade of “C” or better.

---

### **Earth Science Studies**

Earth science studies include work in several related fields: geology, oceanography, meteorology, astronomy, and physical geography.

The area provides:

- an opportunity to fulfill the physical science requirement of the general education curriculum;
- an opportunity for students to complete an earth science minor;
- earth science courses for the natural science minor.

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<b>Earth Science (Minor)</b>	<b>18</b>
	<b>Semester Hours</b>

---

Easc 1014-Earth Science  
 Easc 1114-Physical Geology  
 Easc 1214-Physical Geography OR  
 Easc 2014-Natural Hazards  
 Easc electives (6)

For a minor in earth science, all courses must have a grade of “C” or better.

## Department of Mathematics and Physics

**Interim Department Chair**      Mr. Michael Ask  
    Instructor, Mathematics  
    Science and Agriculture Building, 224  
    Phone: (580) 349-1537  
    E-mail: michael.ask@opsu.edu

### Mathematics Studies

The curriculum of the department of mathematics and physics is designed to meet the needs of students who expect to teach mathematics, students who intend to specialize in some branch of engineering or science which uses mathematics as a tool, students who plan to enter commercial work, and students who wish to study mathematics because of its cultural value. The bachelor of science degree is offered, and a minor is available. Bachelor degree requirements are outlined in this section.

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<b>Mathematics (BS)</b>	<b>120</b>
<b>Academic Option</b>	<b>Semester Hours</b>
<b>General Education</b>	<b>40</b>

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Phys 2014-General Physics I

#### **Mathematics**

Math 1513-College Algebra OR

Math 1715-College Algebra & Trigonometry

**Major** **32-33**

Math 1513-College Algebra AND

Math 1613-Plane Trigonometry OR

Math 1715-College Algebra and Trigonometry

Math 1824-Calculus I

Math 2424-Calculus II

Math 2434-Calculus III

Math 3333-Linear Algebra

Math 3513-Found. of Mathematics

Math 4323-Modern Algebra

Math 4453-Intro. to Real Analysis

Math 4763-Probability and Statistics

#### **Electives**

**12**

Math 3443-Discrete Mathematics

Math 3663-Topology

Math 3713-College Geometry

Math 4000-Problems in Mathematics

Math 4073-Numerical Analysis

Math 4123-Complex Variables

Math 4413-Ordinary Differential Equations

Math 4423-Partial Differential Equations

### **Co-requisite requirement**

**4**

Phys 2114-General Physics II

#### **Electives**

Sufficient to bring upper level hours to 40 and total to 120 semester hours for graduation.

Math majors in the academic option are required to have a minor in some other academic field. Hours designated for the chosen minor are included in the 120 semester hours required for the major.

Hours designated for the chosen minor are included in the 120 semester hours required for the major.

All mathematics courses toward a major in mathematics must have a grade of C or better.

---

### **Mathematics (Minor)      19-20 Semester Hours**

#### **Mathematics**

Math 1513-College Algebra AND

Math 1613-Plane Trigonometry OR

Math 1715-College Algebra and Trigonometry

Math 1824-Calculus I

Math 2424-Calculus II

#### **Electives**

Choose six hours of 3000-4000 mathematics courses to bring total in minor to 19-20 credit hours.

<b>Mathematics (BS)</b>	<b>121-122</b>
<b>Teaching Option</b>	<b>Semester Hours</b>
<b>General Education</b>	<b>40-42</b>
<b>Communication</b>	9
*Engl 1113-Freshman English I	
*Engl 1213-Freshman English II	
Communications Elective	
<b>Mathematics</b>	3-5
Math 1513-College Algebra OR	
Math 1715-College Algebra & Trigonometry	
<b>History and Political Science</b>	6
*Pols 1013-American Government	
*Choose at least one from the following:	
Hist 1313-U.S. History 1492-1877	
Hist 1323-U.S. History 1877-Present	
<b>Natural Science</b>	8
*Choose at least one course from each area:	
Biological Science with a Lab	
Physical Science with a Lab	
<b>Social and Behavioral Sciences</b>	6
*Choose at least one course from each area:	
Sociology/Psychology	
Economics	
<b>Cross Cultural</b>	3
*Educ 2233-Diversity in Education	
<b>Humanities</b>	6
*Choose six hours from the following areas: philosophy, humanities, music appreciation, art appreciation, literature, intro to theater, world history, music history, world religion, others as approved by VPAA. Must include courses from two areas. No activity courses will count.	
<b>Additional Liberal Arts/Science Elective</b>	1
<b>Student Success</b>	1
*Ucss 1111-Student Success Sem.	
<b>Additional Education Requirements</b>	3
*Educ 2233-Diversity in Education	
<b>*Required for Secondary Mathematics Education majors.</b>	
<b>Mathematics Education Coursework</b>	<b>35-36</b>
Math 1513-College Algebra	
Math 1613-Trigonometry OR	
Math 1715-College Algebra & Trigonometry	
Math 1824-Calculus I	
Math 2424-Calculus II	
Math 2434-Calculus III	
Math 3333-Linear Algebra	
Math 3443-Discrete Mathematics	
Math 3513-Foundations of Math	
Math 3713-College Geometry	
Math 4323-Modern Algebra	
Math 4763-Probability and Statistics	

<b>Mathematics Electives (3000-4000 level)</b>	<b>3</b>
Choose from	
Math 3663-Topology	
Math 4000-Problems in Mathematics	
Math 4073-Numerical Analysis	
Math 4123-Complex Variables	
Math 4413-Ordinary Differential Equations	
Math 4423-Partial Differential Equations	
Math 4453-Introduction to Real Analysis	
<b>Corequisite Requirements</b>	<b>6</b>
Two courses in computer programming	
Recommended Courses:	
Cis 2123-Programming I	
Cis 1983-Logic and Design	
<b>Professional Education</b>	<b>33</b>
Educ 2001-Education Seminar	
Educ 2113-Introduction to Education	
Educ 2213-Human Dev.: Child and Adolescent Psychology	
*Educ 3223-Educ of the Except. Child	
*Educ 4313-Educational Psychology	
*Educ 4333-Educational Technology	
*Math 4222-Teaching of Mathematics OR	
*Math 4322-Methods/Materials Secondary Math	
*Educ 4533-Secondary Classroom Management/Assessment	
**Educ 4720-Student Teaching in Secondary Schools (12)	
<b>**Restricted Class: Must be admitted to professional semester prior to enrolling</b>	

**Please refer to pages 108-115 for information about the OPSU Teacher Education Program.**

## Physics Studies

<b>Faculty Contact</b>	Mr. Michael Ask
	Instructor, Mathematics and Physics
	Science and Agriculture Building 224
	Phone: (580) 349-1537
	E-mail: michael.ask@opsu.edu

The curriculum of physics is designed to satisfy requirements for certain teaching endorsements and to provide service courses for other major areas including agronomy, biology, chemistry, medical technology, and natural science and to satisfy general education physical science requirement. No major or minor is offered in physics.

## **Bachelor of Science in Nursing** **(RN to BSN Program)**

**Director:** Dr. Pamela Sandvig, DNP, RN  
Assistant Professor, Nursing  
Hesper Hall 310  
(580) 349-1428  
Email: [pamela.sandvig@opsu.edu](mailto:pamela.sandvig@opsu.edu)

### **Bachelor of Science in Nursing** **(RN to BSN Program)**

The RN to BSN Program is designed to enhance professional knowledge and skills for registered nurses. The curriculum builds on the knowledge and skills of the associate or diploma prepared registered nurse. All nursing courses are offered online with practicum experiences arranged in the student's geographical area. The program is built to support:

- further undergraduate study;
- educational mobility;
- professionalism;
- rural nursing;
- community health;
- leadership abilities.

### **Technology Requirements**

The RN to BSN Program is fully online. Students are required to have technology available to complete online courses.

### **RN to BSN Program Admission Requirements**

Applications to the nursing program are accepted prior to each semester and the summer session. The following is required to be considered for admission to the RN to BSN Program:

- Application and admittance to OPSU;
- Completed RN to BSN Program application;
- Official transcripts from all colleges, universities, or nursing schools attended\*;
- A minimum cumulative Grade Point Average (GPA) of 2.0 on a 4.0 scale;
- Grades below "C" in nursing coursework are not transferable;

- Current, active, unrestricted licensure as a registered nurse (RN) in the state in which the applicant is practicing\*\*;
- Graduate with a Diploma or Associate Degree in Nursing from an accredited nursing program (i.e. ACEN, CCNE).

Nursing students currently enrolled in state-approved Associate Degree nursing programs who have successfully completed at least one semester of nursing coursework may take specified RN to BSN nursing courses (NURS 3113, NURS 3213, and NURS 3333).

\*The RN to BSN Program can only accept general education credits from regionally accredited institutions.

\*\*RN licensure must remain current, active, and unrestricted throughout the duration of the program of study.

The RN to BSN Program at OPSU admits registered nurses from diploma or associate degree nursing programs. Students may receive credit for 30 hours of upper division nursing coursework for the completion of an Associate of Applied Science in Nursing or Diploma in Nursing, and licensure as a registered nurse. Advanced standing is accomplished through articulation under the statewide articulation agreement.

### **Mission**

The mission of the RN to BSN Program is to support educational mobility and broaden previous education by focusing on the importance of professionalism, rural nursing, community health, and leadership.

### **RN to BSN Program Goals**

The goals of the RN to BSN Program at Oklahoma Panhandle State University are to:

- Provide post-licensure education access to those with previous nursing education;
- Emphasize rural healthcare needs as a means to increase awareness and improve understanding of the unique care and skills required of nurses practicing in rural areas;
- Prepare graduates with additional nursing competencies to provide professional care in a variety of health care settings;
- Provide an environment which fosters an awareness of diverse perspectives of culture, caring, health, healing, and illness.

### **Nursing Educational Outcomes**

1. Use information from a liberal education including nursing and scientific disciplines to address healthcare needs of individuals, families, groups, and communities across the lifespan with a multitude of health care problems in diversified health care settings.
2. Utilize critical decision making considering individual differences, ethnic identity, cultural values, and use of information management.
3. Understand the importance of communication and collaboration with other health care providers and members of the general public in promoting the health and well-being for individuals, families, groups, and communities across the lifespan.
4. Incorporate current evidence for the applicability of its findings to nursing practice.
5. Incorporate professional values of nursing and leadership skills by applying knowledge of nursing policy and practices to a variety of health care settings.
6. Demonstrate professionalism and leadership in order to impact patient outcomes and quality improvement by accepting responsibility and accountability for nursing practice.

### **Retention Requirements**

- There is no minor in nursing.
- Students must complete program requirements within five years of admission.
- Nursing courses do not have to be taken in sequential order. Although a certain order of completion is suggested, students may take courses out of order with approval by the program director and/or designee.
- Students must maintain current, active, unrestricted licensure as a registered nurse (RN) for the duration of nursing program.
- A grade of “C” or better is required in all nursing courses.

### **BSN Degree Requirements**

- There are a total of 120 semester hours in the program.
- At least 30 semester hours must be completed at OPSU with at least 15 of the last 30 hours completed in residence. Online courses are considered admissible in fulfilling the residency requirement.
- The statewide articulation agreement grants 30 hours of upper level nursing hours for the AAS in Nursing or Diploma in Nursing and RN licensure. These apply toward fulfilling the requirement of 40 hours of upper division credits and 60 hours from a baccalaureate degree granting institution.

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<b>Bachelor of Science in Nursing (BSN)</b>	<b>120</b>
<b>Semester Hours</b>	

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<b><u>General Education</u></b>	<b>40</b>
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<b><u>Major</u></b>	<b>30</b>
---------------------	-----------

All Nursing courses are taught online.

\*Nurs 3113-The Science of Nursing

\*Nurs 3213-Pharmacotherapeutics

Nurs 3214-Health Assessment/Health  
Promotion

\*Nurs 3333-Nursing in Rural America

Nurs 3343-Nursing Research

Nurs 4226-Community Health Nursing

Nurs 4336-Nursing Leadership

Nurs 4342-Professional Practice Seminar

<b><u>Non-nursing Required Courses</u></b>	<b>6</b>
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Biol 3813- Biological Statistics or comparable

Cis 1113 - Intro. to CIS or other computer course

**Associate or Diploma Transfer Nursing**

<b><u>Credits (articulated as upper-division)</u></b>	<b>30</b>
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<b><u>Electives</u></b>	<b>14</b>
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Sufficient courses to bring total to 120 credit hours  
for graduation.

\*Nursing students currently enrolled in state-approved  
Associate Degree nursing programs who have suc-  
cessfully completed at least one semester of nursing  
coursework may take specified RN to BSN nursing  
courses (NURS 3113, NURS 3213, and NURS 3333).

A minimum of “C” or better is required in all major  
area courses and non-nursing required courses.

### **Accreditation**

The RN to BSN Program at Oklahoma Panhandle State  
University is accredited by:

Accreditation Commission for Education in Nursing  
3343 Peachtree Road NE Suite 850  
Atlanta, GA 30326  
404-975-5000  
[www.acenursing.org](http://www.acenursing.org)

Oklahoma Panhandle State University is approved by  
the Higher Learning Commission and the Oklahoma  
State Regents for Higher Education to offer an online  
RN to BSN Program. The RN to BSN Program is ac-  
credited by the Accreditation Commission for Educa-  
tion in Nursing (ACEN).

## College of Arts and Education

**Dean:** Dr. Brad Duren  
Professor, History  
Hamilton Hall 141  
Phone: (580) 349-1498  
E-mail: duren@opsu.edu

**Faculty Contact:** Dr. J. Michael Bozeman  
Assistant Professor, Criminal Justice  
Hamilton Hall 202  
Phone: (580) 349-1521  
E-mail: michael.bozeman@opsu.edu

The College of Arts and Education consists of six departments: Behavioral and Social Sciences, Communication, Art, Music, Education, and Health and Physical Education. The various departments offer degree programs and course work that help students acquire an appreciation of a broad spectrum of knowledge and values, learn effective communication skills through various media, develop self-expression through the arts, and work toward a wide variety of professional careers. The Department of Education shares this foundation, while helping students learn and develop the skills and dispositions necessary to become effective teachers who are competent, caring, and committed.

### Department of Behavioral and Social Sciences

**Department Chair:** Dr. Patrick Maille  
Professor, History  
Hamilton Hall 212  
Phone: (580) 349-1490  
E-mail: pmaille@opsu.edu

The Department of Behavioral and Social Sciences offers courses in criminal justice, geography, history, political science, psychology, religion, and sociology. Only six hours of religion may count toward graduation.

Majors leading to a Bachelor of Arts (BA) degree are offered in history and social studies; Bachelor of Science (BS) degrees are offered in criminal justice and in psychology. Social studies majors must select only one of the concentrations offered.

Each course numbered 2000 or above used to fulfill requirements for a major must have been completed by the student with a minimum grade of "C."

Degree requirements are printed in this section.

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<b>Criminal Justice (BS)</b>	<b>120</b>
	<b>Semester Hours</b>

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<b><u>General Education</u></b>	<b>40</b>
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<b><u>Major</u></b>	<b>39</b>
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CJ 1013-Introduction to Law Enforcement  
CJ 1033-Criminal Law  
Psyc 1113-General Psychology  
Soc 2243-Multicultural Sociology  
CJ 2513-Introduction to Corrections  
CJ 2813-Introduction to Courts and Legal System  
CJ 3233-Introduction to Forensic Science  
CJ 3563-Juvenile Justice  
Psyc/Soc 3613-Statistics  
CJ 3713-Ethics in Criminal Justice Practice  
Pols 3753-American Constitutional Law  
CJ 4303-Victimology  
Soc 4333-Criminology

#### **Electives**

Sufficient courses to bring upper level hours to 40 credit hours and total to 120 semester hours for graduation

#### **Minor**

A minor of 18-24 hours may be selected from any field in which a minor is offered, or a second major may be selected.



**Faculty Contact:** Dr. Patrick Maille  
 Chair, Department of Behavioral and Social  
 Sciences  
 Professor, History  
 Hamilton Hall 212  
 Phone: (580) 349-1490  
 E-mail: pmaille@opsu.edu

<b>History (BA)</b>	<b>120</b>
	<b>Semester Hours</b>
<b><u>General Education</u></b>	<b>40</b>
<b><u>Major</u></b>	<b>33</b>
Hist 1313-Early US History	
Hist 1323-Late US History	
Hist 2213-Early World History	
Hist 2223-Late World History	
Hist 2313-Historical Methods	
Upper Level American History Electives (9 hours)	
One course must be prior to 1877 AND	
One course must be since 1877	
Upper Level European History Electives (9 hours)	
One course must be prior to 1648 AND	
One course must be since 1648	
<b><u>Co-requisite Requirements</u></b>	<b>6-8</b>
Foreign Language	
<b><u>Electives</u></b>	
Sufficient courses to bring upper level hours to 40 credit hours and total to 120 semester hours for graduation	
<b><u>Minor</u></b>	<b>18-24</b>
A minor of 18-24 hours may be selected from any field that offers one.	

**Faculty Contact:** Dr. Richard Harland  
 Professor, Psychology  
 Hamilton Hall 201  
 Phone: (580) 349-1470  
 E-mail: rharland@opsu.edu

<b>Psychology (BS)</b>	<b>120</b>
<b><u>Academic Option</u></b>	<b>Semester Hours</b>
<b><u>General Education</u></b>	<b>40</b>
<b><u>Major</u></b>	<b>15</b>
Psyc 1113-General Psychology	
Psyc 3073-Biological Psychology	
Psyc 3613-Statistics	
Psyc 3913-Experimental Psychology	
Soc 1113-Elements of Sociology	
<b><u>Psychology Electives</u></b>	<b>18</b>
<b><u>Electives</u></b>	
Sufficient courses to bring upper level hours to 40 credit hours and total to 120 semester hours for graduation	
<b><u>Minor</u></b>	
A minor of 18-24 hours may be selected from any field that offers one.	

**Faculty Contact:** Dr. Patrick Maille  
 Chair, Department of Behavioral and Social  
 Sciences  
 Professor, History  
 Hamilton Hall 212  
 Phone: (580) 349-1490  
 E-mail: pmaille@opsu.edu

<b>Social Studies (BA)</b>	<b>120</b>
<b>Academic Option</b>	<b>Semester Hours</b>
<b><u>General Education</u></b>	<b>40</b>
<b><u>Major</u></b>	<b>45</b>

Hist 1313-Early US History	
Hist 1323-Late US History	
Hist 2213-Early World History	
Hist 2223-Late World History	
Economics	3
Geography	3
Political Science courses (2000 and above)	6
Upper Level European History before 1648	3
Upper Level European History after 1648	3
Upper Level American History before 1877	3
Upper Level American History after 1877	3
Psychology	3
Sociology	3

**Electives**

Sufficient courses to bring upper level hours to 40 credit hours and total to 120 semester hours for graduation

**Minor**

A minor of 18-24 hours may be selected from any field that offers one.

**Faculty Contact:** Dr. David Cole  
 Associate Professor, Political Science  
 Hamilton Hall 213  
 Phone: (580) 349-1486  
 E-mail: david.cole@opsu.edu

<b>Social Studies (BA)</b>	<b>120</b>
<b>Political Science Emphasis</b>	<b>Semester Hours</b>
<b><u>Academic Option</u></b>	
<b><u>General Education</u></b>	<b>40</b>
<b><u>Major</u></b>	<b>45</b>

Hist 1313-Early US History	
Hist 1323-Late US History	
Hist 2223-Late World History	
Soc 3613-Statistics	
Political Science courses (2000 and above)	18
Economics	6
Geography	3
Psychology	3
Sociology	3

**Electives**

Sufficient courses to bring upper level hours to 40 credit hours and total to 120 semester hours for graduation

**Minor**

A minor of 18-24 hours may be selected from any field that offers one.

**Faculty Contact:** Dr. Patrick Maille  
 Chair, Department of Behavioral and Social  
 Sciences  
 Professor, History  
 Hamilton Hall 212  
 Phone: (580) 349-1490  
 E-mail: pmaille@opsu.edu

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<b>Social Studies (BA)</b>	<b>120</b>
<b>Sociology Emphasis</b>	<b>Semester Hours</b>
<b>Academic Option</b>	
<b>General Education</b>	<b>40</b>
<b>Major</b>	<b>45</b>

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Hist 1313-Early US History  
 Hist 1323-Late US History  
 Hist 2223-Late World History  
 Soc 3613-Statistics  
 Sociology 15  
 Economics 6  
 Geography 3  
 Political Science courses 6  
 (2000 and above)  
 Psychology 3

#### **Electives**

Sufficient courses to bring upper level hours to 40 credit hours and total to 120 semester hours for graduation

#### **Minor**

A minor of 18-24 hours may be selected from any field that offers one.

### **Department of Behavioral and Social Science Minors**

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<b>History</b>	<b>18 Semester Hours</b>
American History (2000 level and above)	9
European History (2000 level and above)	9

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<b>Criminal Justice</b>	<b>18 Semester Hours</b>
Pols 3753-American Constitutional Law	
Criminal Justice courses	15

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<b>Political Science</b>	<b>18 Semester Hours</b>
Soc 3613-Statistics	
Political Science courses (2000 level and above)	15

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<b>Psychology</b>	<b>18 Semester Hours</b>
Psyc 1113-General Psychology	
Psyc 3913-Experimental Psychology	
Psyc 3073- Physiological Psychology	
Psychology courses (2000 level and above)	9

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<b>Sociology</b>	<b>18 Semester Hours</b>
Soc 3613-Statistics	
Sociology courses (2000 level and above)	15

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<b>Social Studies</b>	<b>18 Semester Hours</b>
Any combination of courses (numbered 2000 or above) may be selected from any of the following areas:	

History  
 Political Science  
 Sociology  
 Psychology  
 Law Enforcement  
 Geography  
 Economics  
 Religion

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### **Religion Studies**

Religion studies provide general biblical knowledge and an orientation to Christianity. Effort is made in all courses to explore religious insights into present-day social problems. All religion courses are electives; neither a major nor a minor may be declared in this area. A maximum of six semester hours in religion may be counted toward graduation though more courses than this number may be taken by the student.

## Department of Communication

**Interim Department Chair:** Dr. Sara Richter  
 Dean Emeritus; Professor, English  
 Hughes-Strong Hall 109  
 Phone: (580) 349-1472  
 E-mail: saraj@opsu.edu

The Department of Communication offers courses in English, Spanish, and speech which promote communication skills in writing, speaking, listening, and reading. A Bachelor of Arts degree in English is offered as well as minors in English and speech.

### English

**Faculty Contact:** Dr. Sara Richter  
 Dean Emeritus; Professor, English  
 Hughes-Strong Hall 109  
 Phone: (580) 349-1472  
 E-mail: saraj@opsu.edu

**Faculty Contact:**

English studies offer basic courses in composition, literature, and usage for all students in the University and advanced courses leading to the Bachelor of Arts (BA) degree in English. A student must receive at least a "C" in each course leading to the major. The following information outlines requirements for these programs.

English (BA)	120
Semester Hours	
<b><u>General Education</u></b>	<b>40</b>
<b><u>Major</u></b>	<b>27</b>
Engl 2413-Critical Approaches to Literature	
Engl 2453-Young Adult Literature	
Engl 3013-English Usage/Linguistics	
Engl 3023-Technical Writing	
Engl 3123-Advanced Grammar	
Engl 3143-Survey of British Literature I OR	
Engl 3153-Survey British Literature II OR	
Engl 3163-Survey British Literature III	
Engl 3173-Survey American Literature I OR	
Engl 3183-Survey American Literature II	
Engl 3353-World Literature	
Engl 4123-Advanced Composition	
<b><u>English Electives</u></b>	<b>18</b>
English courses (2000 and above)	
<b><u>Electives</u></b>	
Sufficient courses to bring upper level hours to 40 credit hours and total to 120 semester hours for graduation	
<b><u>Minor</u></b>	
A minor of 18-24 hours may be selected from any field that offers one.	

## English Minors

**Faculty Contact:** Mr. Jorge “Tito” Aznar  
Visiting Instructor, English  
Hughes-Strong Hall 113  
Phone: (580) 349-1418  
E-mail: taznar@opsu.edu

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### Minor in English for Teachers 24 Semester Hours

Engl 2413-Critical Approaches to Literature  
Engl 2453-Young Adult Literature  
Engl 3013-English Usage/Linguistics  
Engl 3123-Advanced Grammar  
Engl 3353-World Literature  
Engl 3883-Shakespeare  
Engl 4123-Advanced Composition  
American Literature OR 6  
British Literature 6

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### Minor in English for Non-teachers 18 Semester Hours

Engl 2413-Critical Approaches to Literature  
Engl 3013-English Usage/Linguistics  
Engl 3123-Advanced Grammar OR  
Engl 3023-Technical Writing OR  
Engl 4123-Advanced Composition  
English Electives 9  
(2000 and above)

## Humanities

**Faculty Contact:** Dr. Sara Jane Richter  
Dean Emeritus; Professor, English  
Hughes-Strong Hall 109  
Phone: (580) 349-1472  
E-mail: saraj@opsu.edu

Humanities investigates mankind’s creative endeavors throughout history and cultivates an aesthetic appreciation and sensitivity for the fine arts--art, music, and literature in particular.

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### Humanities Minor 18 Semester Hours

Select 18 hours from any of the following areas. No performance or activity courses count toward this minor.

Any course in humanities (HUM prefix)  
Any course in literature (ENGL prefix)  
Any course in western civilization or world history (HIST) prefix  
Any course in art history (ART prefix)  
Any course in music history or music literature (MUSI prefix)  
Any upper level course in foreign language literature or culture (other than English)

## Speech Communications

**Faculty Contact:** Dr. Sara Jane Richter  
Dean Emeritus; Professor, English  
Hughes-Strong Hall 109  
Phone: (580) 349-1472  
E-mail: saraj@opsu.edu

Communications classes increase students’ abilities in oral communication; develop knowledge and skills for professional use in education, business, political science, and theatre arts; and develop an aesthetic appreciation for the art of rhetoric. Communications courses meet the needs of students interested in public speaking, organizational communication in management, drama, business, law enforcement, and professional schools such as law school.

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### Speech Minor 18 Semester Hours

18 hours from the speech curriculum with a minimum of six hours in upper level courses

## Department of Art

**Department Chair:** Mr. Brent Shoulders  
Associate Professor, Art  
Hesper Hall 209  
Phone: (580) 349-1485  
E-mail: [brent@opsu.edu](mailto:brent@opsu.edu)

Art studies are based on the study of design, drawing, painting, art history, sculpture, ceramics, and advanced studies within those fields. The aim of this program is to give students a wide experience in art.

### Fine Arts Studies

Course work in the Bachelor of Fine Arts degree focuses on three separate tracts of study: visual art, studio art, and computer graphics. The visual arts tract consists of in-depth studies in two-dimensional and three-dimensional art. Beginning with fundamentals of art, course work builds comprehensively upon each course taken to give students a consistent growth of knowledge in the areas of design, composition, color theory, and various techniques and experiments.

The two-dimensional aspect focuses on drawing and painting skills with the addition of classes in upper-level figure drawing, painting, art problems, and art marketing.

The three-dimensional aspect focuses on different facets of ceramic design, techniques, glazing and firing, and experimentation with glazing and clay body design.

The overall objective of the visual arts tract is to gain sufficient skills and techniques in a studio environment, as well as to focus one's artwork toward market trends and to display one's work in area galleries.

The traditional art tract focuses on a small core of courses that begins well-rounded students on a path to a studio emphasis. The option focuses on the realms of painting, drawing, photography, sculpture, and ceramics. The core touches every facet of the world of art, but then becomes intently focused within the disciplines.

Exploration and research courses are included to better prepare students for graduate school and life as a studio artist.

The computer graphics tract takes a unique approach to cross-discipline course work and ties traditional art studio classes to state-of-the-art computer programming and software. Course work includes traditional art classes, computer lab work, and computer programming. This degree is designed for students who wish to focus their energies in a growing field of computer-assisted art, internet design, video gaming, and video and film production.

Courses in the major must have a "C" or better to count as credit toward the degree in art.

<b>Bachelor of Fine Arts (BFA)</b>	<b>120</b>
<b>Art Option</b>	<b>Semester Hours</b>
<b>General Education</b>	<b>40</b>
<b>Art Requirements</b>	<b>76</b>
Art 1123-Photography	
Art 1433-Fundamentals of Art	
Art 2123-Drawing I	
Art 2223-Drawing II	
Art 2253-Design II - 3D Design	
Art 2333-Art Marketing	
Art 2443-Design	
Art 2533-Ceramics I	
Art 2543-Ceramics II	
Art 2853-Painting I	
Art 2933-Painting II	
Art 3153-Figure Drawing I	
Art 3163-Figure Drawing II	
Art 3303-Art History I	
Art 3333-Sculpture I	
Art 3343-Sculpture II	
Art 3353-Ceramics III	
Art 3423-Painting III	
Art 3543-Painting IV	
Art 3613-Jewelry I	
Art 3663-Printmaking	
Art 4013-Watercolor I	
Art 4303-Art History II	
Art 4421-Senior Exhibit	
Art 4423-Watercolor II	
Art 4563-Ceramics IV	
<b>Art Electives</b>	<b>4</b>
<b>Minor</b>	
A minor of 18-24 hours may be selected from any field that offers one. However, a minor is not required for this degree, and minor hours are not included in the 120 semester hours required for the degree.	

<b>Bachelor of Fine Arts (BFA)</b>	<b>120</b>
<b>Traditional Art Option</b>	<b>Semester Hours</b>
<b>General Education</b>	<b>40</b>
<b>Art Core Requirements</b>	<b>57</b>
Art 1123-Photography	
Art 1433-Fundamentals of Art	
Art 2123-Drawing I	
Art 2223-Drawing II	
Art 2243-Design I - 2D Design	
Art 2253-Design II - 3D Design	
Art 2333-Art Marketing	
Art 2533-Ceramics I	
Art 2543-Ceramics II	
Art 2853-Painting I	
Art 2933-Painting II	
Art 3153-Figure Drawing I	
Art 3303-Art History I	
Art 4303-Art History II	
Art 4503-Aesthetics and Advanced Criticism	
Art 3333-Sculpture I	
Art 4013-Watercolor I	
Art 4463-Senior Exhibit	
<b>Art History</b>	<b>3</b>
Art 4323-History of Modern Art OR	
Art 4333-History of Italian Renaissance Art OR	
Art 4343-History of Medieval Art	
<b>Art Electives</b>	<b>5</b>
Choose 5 hours--not to be repeated if taken previously	
Art 2633-Photography II-Advanced Photography	
Art 3543-Digital Photography	
Art 4543-Studio Photography	
Art 3643-Outdoor Photography	
Art 4553-Sports Photography	
Art 3663-Printmaking	
Art 3423-Painting III-Oil Painting	
Art 3543-Painting IV	
Art 4473-Painting V	
Art 4583-Painting VI	
Art 3683-Airbrush Illustration	
Art 3673-Pastels I	
Art 3883-Pastels II	
Art 4423-Watercolor II-Advanced Watercolor	
Art 4000-Problems in Art 2D Studio (up to 2X)	
Art 4000-Problems in Art 3D Studio (up to 3X)	
Art 4323-History of Modern Art	
Art 4343-History of Medieval Art	
Art 3343-Sculpture II	
Art 4433-Sculpture III-Metals and Assembly	
Art 4443-Sculpture IV-Subtractive Sculpture	
Art 3613-Jewelry Making I	

Art 3713-Advanced Jewelry-Silversmithing  
 Art 3563-Ceramics III  
 Art 4563-Ceramics IV  
 Art 4573-Ceramics V  
 Art 4583-Ceramics VI  
 Art 4333-History of Renaissance Art

Must have a "C" or above to count as credit.

**Plus: Choose one of the following emphases:**

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**2D Emphasis-Painting 18**

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Art 3423-Painting III-Oil Painting  
 Art 3553-Painting IV-Advanced Oil Painting  
 Art 4423-Watercolor II-Advanced Watercolor  
 Art 3673-Pastels I  
 Art 3163-Figure Drawing II  
 Art 4473-Painting V-Explorative Techniques

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**2D Emphasis-Photography 18**

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Art 3423-Photography II - Advanced Photography  
 Art 2643-Photojournalism  
 Art 3543-Digital Photography  
 Art 4543-Studio Photography  
 Art 3553-Outdoor Photography  
 Art 4553-Sports Photography

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**2D Emphasis-Drawing 18**

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Art 3163-Figure Drawing II  
 Art 4000-Problems in Art - Drawing (2X)  
 Art 3673-Pastels I  
 Art 3883-Pastels II-Advanced Pastel  
 Art 3663-Printmaking

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**3D Emphasis-Ceramics 18**

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Art 3563-Ceramics III  
 Art 4563-Ceramics IV  
 Art 4573-Ceramics V-Explorative Techniques  
 Art 4583-Ceramics VI-Explorative Techniques  
 Art 3343-Sculpture II  
 Art 4000-Problem in Art - Ceramics

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**3D Emphasis-Sculpture 18**

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Art 3343-Sculpture II  
 Art 4433-Sculpture III-Metals and Assembly  
 Art 4443-Sculpture IV-Subtractive Sculpture  
 Art 3613-Jewelry Making I  
 Art 4573-Ceramics V-Explorative Techniques  
 Art 4583-Ceramics VI-Explorative Techniques

<b>Bachelor of Fine Arts (BFA)</b>	<b>120</b>
<b>Computer Graphic Option</b>	<b>Semester Hours</b>
<b>General Education</b>	<b>40</b>
<b>Art Requirements</b>	<b>37</b>

Art 1123-Photography  
 Art 1433-Fundamentals of Art  
 Art 2123-Drawing I  
 Art 2223-Drawing II  
 Art 2243-Design I  
 Art 2253-Design II-3D Design  
 Art 3153-Figure Drawing I  
 Art 3163-Figure Drawing II  
 Art 3333-Sculpture I  
 Art 3343-Sculpture II  
 Art 3303-Art History I  
 Art 4303-Art History II  
 Art 4421-Senior Exhibit

**Select from the following courses 4**

Art 2853-Painting I  
 Art 2933-Painting II  
 Art 3423-Painting III  
 Art 4013-Watercolor I  
 Art 4423-Watercolor II  
 Art 3663-Printmaking  
 Art 2323-Art Marketing I  
 Art 4503-Aesthetics and Advanced Criticism  
 Art 2643-Photojournalism  
 Art 3543-Digital Photography  
 Art 4543-Studio Photography  
 Art 3553-Outdoor Photography  
 Art 4553-Sports Photography  
 Art 3683-Airbrush Illustration  
 Art 3673-Pastels I  
 Art 3883-Pastels II  
 Art 4423-Watercolor II  
 Art 4000-Problems in Art 2D Studio  
 Art 4000-Problems in Art 3D Studio

**Required Electives 6**

Engl 3023-Technical Writing  
 Art 4523-Art Marketing II  
**Computer Graphics Requirements 33**  
 Cis 2113-HTML/Webpage Design  
 Cis 2613-Typography  
 Cis 2633-Audio for Video and Games  
 Cis 3393-Video Composition  
 Cis 4233-Game Level Design  
 Cis 4413-Web Animation  
 Art/Cis 2623-2D Graphics Applications  
 Art/Cis 3313-3D Modeling I  
 Art/Cis 3383-Advanced Modeling/Lighting  
 Art/Cis 4423-Computer Animation  
 Art/Cis 4443-Senior Project in Animation



## Art Minors

**Art Studies Minor** **24 Semester Hours**

Art 1433-Fundamentals of Art	
Art 2113-Drawing I	
Art 2243-Design	
Art Electives	15

**Photography Minor** **24 Semester Hours**

Art 1123-Photography I	
Art 2243-Design I	
Art 2623-Photography II	
Art 3303-Art History I OR	
Art 4303-Art History II	
Art 4000- Photography preferred courses	12

**Art History Minor** **24 Semester Hours**

Art 3303-Art History I  
Art 4303-Art History II  
Art 4343-History of Medieval Art  
Art 4333-History of Italian Renaissance Art  
Art 4323-History of Modern Art  
Art 4503-Aesthetics and Advanced Art Criticism  
Hist 2113-Introduction to Early World History  
Hist 2223-Introduction to Late World History

Department of Music

**Department Chair:** Ms. Charla Lewis  
Assistant Professor, Instrumental Music  
Hughes-Strong Hall 114  
Phone: (580) 349-1483  
E-mail: charla.lewis@opsu.edu

The Music Department offers the Bachelor of Music degree in five options. The general option is intended for students to pursue graduate work. The music pedagogy option is for students who hope to attend graduate school in music or to teach privately. The two performance options (vocal and instrumental) are intended for students who hope to perform professionally. The music education option prepares students for Oklahoma teacher certification in both instrumental and vocal music and requires admission to the Teacher Education Program.

All options in the Bachelor of Music degree require the completion of a Music Theory Barrier Examination and a Performance Barrier Examination which both usually occur at the end of the fourth semester of study. Additionally, all music majors must demonstrate basic proficiency in keyboard skills prior to graduation and must pass all music courses with a grade of “C” or better.

The Music Department also offers two minors in music: Music Performance and Music Studies. All students majoring or minoring in music should consult with Music Department faculty before beginning their first semester at OPSU to avoid delays in graduation, as most programs require eight separate semesters of study.

**Faculty Contact:** Ms. Charla Lewis  
Assistant Professor, Instrumental Music  
Hughes-Strong Hall 114  
Phone: (580) 349-1483  
E-mail: charla.lewis@opsu.edu

<b>Music (BM)</b>	<b>120 Semester Hours</b>
<b>General Music</b>	
<b>General Education</b>	<b>40</b>
<b>Humanities</b>	<b>9</b>
Hum 1533-Art Appreciation	
Hum 2333-Philosophy of Life	
Hum 2423-Intro to Theater OR	
Comm 3703-Small Group Discussion OR	
Hum 2563-Music in Life	

<b>Art</b>	<b>3</b>
Art 3303-Art History I OR	
Art 4303-Art History II	
<b>Literature</b>	<b>6</b>
Engl 2413-Critical Approaches to Literature	3
<b>World Studies</b>	<b>3</b>
Rel 2032-World Religion OR	
Soc 2003-Critical Thinking OR	
Engl 3353-World Literature	
<b>Music Theory</b>	<b>19</b>
Musi 1521-Theory of Music I Lab	
Musi 1523-Theory of Music	
Musi 1531-Theory of Music II Lab	
Musi 1533-Theory of Music II	
Musi 2541-Theory of Music III Lab	
Musi 2543-Theory of Music III	
Musi 2551-Theory of Music IV Lab	
Musi 2553-Theory of Music IV	
Musi 3563-Forms and Analysis	
<b>Musicology</b>	<b>8</b>
Musi 3333-History and Literature of Music I	
Musi 2412-Ethnomusicology	
Musi 3343-History and Literature of Music II	
<b>Applied Music</b>	<b>24</b>
Mupi 1XX0-Private Lesson: Lower Division (4 credits)	
Four semesters - 1 hour each	
Mupi 3XX0-Private Lesson-Upper Division (7 credits)	
Four semesters - 4 hours in junior year and 3 hours in senior year (1 hour as co-requisite for recital)	
Mupi 4991-Senior Recital (1 credit)	
Mupe 1XXX- Major Ensemble (8 credits)	
Piano Studies (4 credits)	
Muap 1XXX-Class Piano (I, II, III, or IV) OR	
Mupi 1210-Keyboards: Lower Division	
All music majors are required to be in a major ensemble (MUPE 1411-Concert Choir, MUPE 1211-Concert Band) appropriate for their principal instrument every semester of residence. Barrier examinations in theory and applied music must be successfully completed before advancement to the Junior Level. All entering music majors must take a placement examination in theory before their first enrollment. A Keyboard Proficiency Examination must be passed before graduation. All music majors must pass core music classes with a minimum grade of “C”.	
<b>Music Education</b>	<b>3</b>
Mued 3113-Principles of Conducting	
<b>Electives and Minor</b>	
Sufficient course work to bring total hours to 120	

**Faculty Contact:** Ms. Charla Lewis  
 Assistant Professor, Instrumental Music  
 Hughes-Strong Hall 114  
 Phone: (580) 349-1483  
 E-mail: charla.lewis@opsu.edu

**Music (BM)** 124

**Music Pedagogy Option** Semester Hours

**General Education** 41

**Music Theory** 19

Musi 1521-Theory of Music I Lab

Musi 1523-Theory of Music

Musi 1531-Theory of Music II Lab

Musi 1533-Theory of Music II

Musi 2541-Theory of Music III Lab

Musi 2543-Theory of Music III

Musi 2551-Theory of Music IV Lab

Musi 2553-Theory of Music IV

Musi 3563-Forms and Analysis

**Music History and Literature** 8

Musi 2312-History and Literature of Music I

Musi 2412-Ethnomusicology

Musi 3332-History and Literature of Music II

Musi 3342-History and Literature of Music III

**Applied Music** 25

Mupi 1XX0-Private Lesson- (4) (lower division)

Mupi 3XX0-Private Lesson- (4) (upper division)

Mupi 4991-Recital

Mupe 1XXX- Major Ensemble- (8)

All music majors must be in a major ensemble appropriate for their principal instrument every semester of residence. Barrier examinations in theory and applied music must be successfully completed before advancement to the junior level. A keyboard proficiency examination must be passed before graduation. All entering music majors must take a placement examination in theory before their first enrollment.

**Music Education** 20

Mued 2112-Woodwind Pedagogy

Mued 2212-Brass Pedagogy

Mued 2312-Percussion Pedagogy

Mued 2412-Strings Pedagogy

Mued 2511-Class Voice

Mued 2521-Diction for Singers I

Mued 2531-Diction for Singers II

Mued 3212-Vocal Pedagogy

Mued 3113-Principles of Conducting

Mued 3122-Instrumental Conducting

Mued 3132-Choral Conducting

**Electives**

Sufficient coursework to bring total hours to 124

**Faculty Contact:** Dr. Dee Wilkins  
 Assistant Professor, Vocal Music  
 Hughes-Strong Hall 208  
 Phone: (580) 349-1482  
 E-mail: dee.wilkins@opsu.edu

**Music (BM)** 120 Semester Hours

**Vocal Performance Option**

**General Education** 40

**Music Theory** 19

Musi 1521-Theory of Music I Lab

Musi 1523-Theory of Music

Musi 1531-Theory of Music II Lab

Musi 1533-Theory of Music II

Musi 2541-Theory of Music III Lab

Musi 2543-Theory of Music III

Musi 2551-Theory of Music IV Lab

Musi 2553-Theory of Music IV

Musi 3563-Forms and Analysis

**Musicology** 8

Musi 2412-Ethnomusicology

Musi 3333-History and Literature of Music I

Musi 3343-History and Literature of Music II

**Applied Music** 34

Mupi 1110-Private Voice: Lower Division- (8 credits)

Four semesters - 2 hours each

Mupi 3150-Private Voice: Upper Division- (8 credits)

Four semesters - 2 hours each

Mupi 3991-Junior Recital (1 credit)

Mupi 4991-Recital (1 credit)

Mupe 1411-Concert Choir - (8 credits)

Piano Studies (8 credits)

Muap 1XXX-Class Piano (I, II, III, or IV) OR

Mupi 1210-Keyboards: Lower Division

All music majors are required to be in a major ensemble (MUPE 1411-Concert Choir, MUPE 1211-Concert Band) appropriate for their principal instrument every semester of residence. Barrier examinations in theory and applied music must be successfully completed before advancement to the Junior Level. All entering music majors must take a placement examination in theory before their first enrollment. A Keyboard Proficiency Examination must be passed before graduation. All music majors must pass core music classes with a minimum grade of "C".

**Music Education** 11

Mued 2521-Diction for Singers I

Mued 2531-Diction for Singers II

Mued 3113-Principles of Conducting

Mued 3132-Choral Conducting

Mued 3212-Vocal Pedagogy

Mued 3222-Vocal Repertoire (required)

**Electives**

Sufficient course work to bring total hours to 120

**Faculty Contact:** Ms. Charla Lewis  
 Assistant Professor, Instrumental Music  
 Hughes-Strong Hall 114  
 Phone: (580) 349-1483  
 E-mail: charla.lewis@opsu.edu

### **Music (BM)**

#### **Music Education Option**

- **Dual Emphasis – 131 Semester Hours**
- **Instrumental Emphasis – 125 Semester Hours**
- **Vocal Emphasis – 125 Semester Hours**

#### **General Education 41**

Note: Musi 2412, Musi 3333, and Musi 3343 will count as General Education hours for Music Education majors.

#### **Co-Requisite Requirements 3**

Educ 2233-Diversity in Education

#### **Professional Education 28**

Educ 2001-Education Seminar

Mued 2113-Introduction to Music Education

Educ 3213-Human Development

Educ 3223-Education of the Exceptional Child

Educ 4313-Educational Psychology

Educ 4333-Educational Technology

Educ 4750-Student Teaching

#### **Applied Music 19**

Mupi 1XX0-Private Lesson- Lower Division - four semesters of 1 credit each

Mupi 3XX0-Private Lesson- Upper Division - 4 credits junior year; 1 credit senior year co-req with Senior Recital

Mupi 4991-Senior Recital

Mupe 1XXX- Major Ensemble 7 semesters

Muap 1XXX Class Piano (I, II, III, or IV) OR

Mupi 1210 Keyboard (Lower Division - 2 credits)

#### **Core Music Courses 19**

Musi 1521-Theory of Music I Lab

Musi 1523-Theory of Music I

Musi 1531-Theory of Music II Lab

Musi 1533-Theory of Music II

Musi 2541-Theory of Music III Lab

Musi 2543-Theory of Music III

Musi 2551-Theory of Music IV Lab

Musi 2553-Theory of Music IV

Musi 3563-Forms and Analysis

#Musi 2412-Ethnomusicology

#Musi 3333-History and Literature of Music I

#Musi 3343-History and Literature of Music II

# Included in General Education hours

All music majors are required to be in a major ensemble (MUPE 1411 Concert Choir, MUPE 1211 Concert Band) appropriate for their principal instrument every semester of residence. Barrier examinations in theory and applied music must be successfully completed before advancement to the Junior Level. All entering music majors must take a placement examination in theory before their first enrollment. A Keyboard Proficiency Examination must be passed before graduation. All music majors must pass core music classes with a minimum grade of "C."

#### **Music Education-Dual Emphasis 21**

Mued 2112-Woodwind Pedagogy

Mued 2112-Brass Pedagogy

Mued 2312-Percussion Pedagogy

Mued 2412-Strings Pedagogy

Mued 2521-Diction for Singers I

Mued 2531-Diction for Singers II

Mued 3113-Principles of Conducting

Mued 3212-Vocal Pedagogy

Mued 3222-Vocal Repertoire

Mued 3312-Elementary School Music Methods

Mued 3322-Secondary School Music Methods

#### **Music Education—Instrumental Emphasis 15**

Mued 2112-Woodwind Pedagogy

Mued 2212-Brass Pedagogy

Mued 2312-Percussion Pedagogy

Mued 2412-Strings Pedagogy

Mued 3113-Principles of Conducting

Mued 3312-Elementary School Music Methods

Mued 3322-Secondary School Music Methods

#### **Music Education—Vocal Emphasis 15**

Mued 2521-Diction for Singers I

Mued 2531-Diction for Singers II

Mued 3113-Principles of Conducting

Mued 3212-Vocal Pedagogy

Mued 3222-Vocal Repertoire

Mued 3312-Elementary School Music Methods

Mued 3322-Secondary School Music Methods

Mued 3132-Choral Conducting

All music education majors must demonstrate competence in a foreign language.

**Faculty Contact:** Ms. Charla Lewis  
 Assistant Professor, Instrumental Music  
 Hughes-Strong Hall 114  
 Phone: (580) 349-1483  
 E-mail: [charla.lewis@opsu.edu](mailto:charla.lewis@opsu.edu)

**Music (BM) 120 Semester Hours**

**Instrumental Performance Option**

**General Education 40**

**Theory 19**

Musi 1521-Theory of Music I Lab

Musi 1523-Theory of Music

Musi 1531-Theory of Music II Lab

Musi 1533-Theory of Music II

Musi 2541-Theory of Music III Lab

Musi 2543-Theory of Music III

Musi 2551-Theory of Music IV Lab

Musi 2553-Theory of Music IV

Musi 3563-Forms and Analysis

**Musicology 8**

Musi 2412-Ethnomusicology

Musi 3333-History and Literature of Music I

Musi 3343-History and Literature of Music II

**Applied Music 34**

Mupi 1XX0-Private Lesson: Lower Division (8 credits)

4 semesters-2 hours each

Mupi 3XX0-Private Lesson: Upper Division (8 credits)

4 semesters- 2 hours each

Mupi 3991-Junior Recital- (1 credit)

Mupi 4991-Recital- (1 credit)

Mupe 1211-Concert Band- (8 credits)

Piano Studies- (8 credits)

Muap 1XXX-Class Piano (I, II, III, or IV) OR

Mupi 1210-Keyboards: Lower Division

All music majors are required to be in a major ensemble (MUPE 1411-Concert Choir, MUPE 1211-Concert Band) appropriate for their principal instrument every semester of residence. Barrier examinations in theory and applied music must be successfully completed before advancement to the Junior Level. All entering music majors must take a placement examination in theory before their first enrollment. A Keyboard Proficiency Examination must be passed before graduation. All music majors must pass core music classes with a minimum grade of "C".

**Music Education 3**

Mued 3113-Principles of Conducting

**Electives and Minor**

Sufficient course work to bring total hours to 120

## Music Minors

**Music Performance 17**

**Semester Hours**

**Four semesters of lower division private music lessons on selected major instrument:**

Mupi 1010-Private String

Mupi 1110-Private Voice

Mupi 1210-Private Keyboard

Mupi 1310-Private Brass

Mupi 1410-Private Woodwind

Mupi 1510-Private Percussion

Mupi 1610-Private Guitar

**Four semesters of upper division private music lessons on selected major instrument:**

Mupi 3050-Private Strings

Mupi 3150-Private Voice

Mupi 3250-Private Keyboard

Mupi 3350-Private Brass

Mupi 3450-Private Woodwind

Mupi 3510-Private Percussion

Mupi 3650-Private Guitar

Mupi 4991-Recital

**Music Studies 21-24**

**Semester Hours**

Musi 1533-Theory of Music I

Musi 1521-Theory of Music I Lab

Musi 1543-Theory of Music II

Musi 1531-Theory of Music II Lab

Musi 3553-Theory of Music III

Musi 2541-Theory of Music III Lab

**Choose two of the following courses:**

Musi 2312-History and Literature of Music I

Musi 2412-Ethnomusicology

Musi 3332-History and Literature of Music II

Musi 3342-History and Literature of Music III

Remaining hours from private lessons, ensemble, and Mupe 2711-Musical Theater

## Department of Education

### Director:

Dr. Jerry Mihelic  
Assistant Professor, Education  
Hamilton Hall 122  
Phone: (580) 349-1438  
E-mail: [jmihelic@opsu.edu](mailto:jmihelic@opsu.edu)

### Important Information for Teacher Candidates of OPSU

Oklahoma Panhandle State University, within the College of Arts and Education, offers courses leading to the Bachelor of Science degree in elementary education. Professional education course work required for the certification recommendations of elementary, secondary, and P-12 teachers in Oklahoma is also presented. Within this academic and professional structure, teacher education candidates are assigned and expected to complete experiences leading to successful teaching appointments.

The professional education component includes several hours of pre-service field experiences in the public schools. The academic course work cultivates an understanding of human learning and development and techniques of classroom management, pedagogy, and methodology appropriate for the instructional level of the certificate. The professional education experience is concluded with the satisfactory completion of a student intern assignment.

The Teacher Education Program of OPSU is designed to explore the education curriculum in depth and develop related teaching skills. The professional education curriculum enables teacher candidates to successfully perform necessary competencies required for certification. The Teacher Education Program of OPSU includes a variety of cultural and liberal arts experiences in general education, specialty areas (majors), and professional education courses. Teacher candidates who are admitted to the Teacher Education Program of OPSU must perform at a predetermined level in knowledge, skills and dispositions during the process of becoming a competent professional teacher.

The Teacher Education program of OPSU is supported by a planned and continuous evaluative feedback system that includes the progress of the graduates as beginning classroom teachers. Program changes and requirements in the guidelines established by professional associations are included in the university program as they occur.

### Procedures Applicable to All Teacher Candidates

Students who plan to pursue a teaching career **must** make application for admission to the teacher education program during their sophomore year. This means that all requirements for application must be completed as quickly as possible, including passing the Oklahoma General Education Test (OGET). The application can be completed online at <http://www.opsu.edu/Academics/Education/?page=application> and must be filed by the last Friday prior to Fall Break (in the fall semester) or by the second Friday in March (in the spring semester.) **No applications will be accepted during Interterm or summer sessions.** Teacher candidates must have completed or be enrolled in **EDUC 2113 “Introduction to Education.”** Transfer students with more than 45 semester hours who intend to pursue a teaching career are required to remove all General Education curriculum deficiencies during their first year at OPSU as well as make application for admission to the teacher education program concurrently with the first enrollment at OPSU.

Professional education courses (listed on page 125) must be taken from a four-year institution with an approved teacher education program. No professional education courses may be transferred to OPSU from a community college or a junior college.

## Teacher Education Program Admission Requirements

Admission to the Teacher Education Program at Oklahoma Panhandle State University includes the following conditions: **NOTE: All requirements must be completed PRIOR to applying for admission to the OPSU Teacher Education Program.**

- A. Passing Score (240 or above) on the Oklahoma General Education Test (OGET).
- B. Aptitude and proficiency in English can be established by:
  - 1. A letter grade of C or better in ENGL 1113.
  - 2. A letter grade of C or better in ENGL 1213.
- C. Demonstrate proficiency in Speech
  - 1. A letter grade of C or better in COMM 1113 or equivalent.
  - 2. Successful completion of teacher candidate interview.
- D. Scholastic Achievement
  - 2. A GPA of 2.5 in required general education course work.
  - 3. A minimum letter grade of C is required in all specialty (major) and professional education course work. The teacher candidate must maintain a minimum cumulative GPA of 2.5 to continue in the Teacher Education Program at OPSU.
- E. Enrollment or completion of EDUC 2113 - Introduction to Education.

Each teacher candidate is subject to all program and certification requirements in effect at the time of admission to the Teacher Education Program. Any break in continuous enrollment will require the teacher candidate to fulfill the requirements in force at the time of re-enrollment.

Any professional education class more than five years old, following a break in enrollment, will not fulfill the requirements of the OPSU Teacher Education Program and must be repeated. New State Department of Education or Oklahoma Office of Educational Quality and Accountability (OEQA) regulations will be followed when implemented.

## Student Intern Program Student Teaching

Students who have been admitted to the Teacher Education Program are required to make another formal application prior to enrolling in the professional semester (student teaching semester) and secure a student intern assignment following the completion of all course work. The application can be completed online at <http://www.opsu.edu/Academics/Education/?page=application> must be filed by the second Friday in February of the year prior to the candidate's professional semester. The Director of Teacher Education will evaluate all applications for eligibility to enroll in the professional semester and present the applications to the Director of Field Placement. The Director of Field Placement will assign the teacher candidate to an internship that meets the requirements of the OPSU Teacher Education Council based on input by the public schools, previous field experiences, the candidate's request, and the availability of qualified P-12 instructors within the OPSU service area. No intern will be assigned to a school that is more than 160 miles of OPSU with the possible exception of Agricultural Education interns or with special permission.

1. Every teacher candidate is required to participate in “The August Experience.” A teacher candidate will know his/her intern placement by May of the year preceding his/her internship — whether in the fall or spring semesters — and will be required to spend a minimum of three days with their cooperating teacher during the month of August prior to the start of school. The details of this assignment are found on page 121 of this catalog.
2. A teacher candidate must have passing scores on all Oklahoma Subject Area (OSAT) required for his/her major before the professional semester begins. This means that teacher education candidates who apply by the second Friday in February to intern the following fall semester must have all required OSAT exams passed prior to the beginning of the fall semester at their assigned school (around the middle of August) or he/she will NOT be allowed to intern during that semester, and those applying for internships in the spring semester must have passed all required OSAT exams prior to the beginning of the spring semester at their assigned school (around the middle of January) or he/she will NOT be allowed to intern during that semester.
3. A teacher candidate who completes a double major (or an additional teaching area) and has passed the appropriate OSAT exams will intern in only one area unless the school district is willing to split the assignment into a primary and intermediate or a middle and senior high school level. A minimum of twelve weeks of internship, must be completed in each area where a credential is to be obtained.
4. The Director of Field Placement will assign the teacher candidate to an internship that meets the requirements of the OPSU Teacher Education Council based on input by the public schools, previous field experiences, the candidate’s request, and the availability of qualified P-12 instructors within the OPSU service area. No candidate will be placed outside a radius of 160 miles from OPSU with the exception of Agricultural Education candidates or with special permission from the Teacher Education Council.

## Requirements for Admission to the Professional Semester

1. All course work must be completed (or enrolled in).
2. Minimum cumulative GPA of 2.5.
3. Minimum grade point average in the major course work (MGPA) of 2.5; GPA of 2.5 in general education; and minimum letter grade of C in all specialty (major) and professional education course work.
4. Teacher candidates must complete all course work for certification and the foreign language proficiency requirement prior to being allowed to complete the Internship. This includes the completion of all correspondence courses (with grades recorded on transcript) and the finalization of “Incomplete” grades.
5. The approval and recommendation by faculty in a candidate’s teaching field.
6. Application for the Student Intern Program must be in the office of teacher education before the second Friday in February of the year prior to the time the candidate is eligible to perform his/her internship.
7. Teacher candidates are required to return to the OPSU campus for two training seminars, the midterm seminar, and final portfolio reviews. Other required meetings may be scheduled by the Director of Teacher Education.
8. No teacher candidate will receive an intern assignment during any time the candidate is involved in institutional probation.
9. Any teacher candidate convicted of a felony crime within the preceding ten (10) year period of making application for the Student Intern Program forfeits the right to obtain a teaching certificate (**O.S. 70-3-104.1**).

## The Professional Semester

The Professional Semester is an entire semester devoted to the Student Intern Program. During this semester, the teacher intern is expected to devote full time to the classroom and professional responsibilities.

The following conditions comprise the professional semester:



## Foreign Language Proficiency

Students entering OPSU during or after the fall 1997 semester as freshmen, or after a break in continuous enrollment, seeking an education degree must show a novice-high level of speaking and listening proficiency in a language other than English as defined by the American Council on Teaching Foreign Languages (ACTFL) This is a graduation requirement and a certification requirement.

This proficiency may be met in one of the following manners: 1) completion (with a grade of C or higher) of one semester course (three-four hours) of a foreign language at an accredited college or university, or 2) successfully complete level one in Rosetta Stone for selected language. The student's permanent folder and graduation check sheet will reflect the date the foreign language proficiency is met.

## August Experience

It is the belief of the OPSU Teacher Education Program that practical experience is just as valuable as classroom learning. That is why there are so many field experiences built within our program. One of the most valuable experiences that a teacher candidate can have is that of "setting up the classroom for the first year." For this reason, OPSU Teacher Education Program has implemented the "August Experience."

All teacher candidates who have been accepted into the professional semester of student teaching will be given the location of their student teaching placement and the name of their cooperating teacher by the first of May of the year prior to their student teaching assignment. This will be for teacher candidates completing their student internship in the fall or spring semesters.

To fulfill the requirements of the August Experience, a teacher candidate must:

1. Contact both the building principal of his/her assigned school and his/her assigned cooperating teacher. The intern will need to set up future dates prior to the beginning of the school year for the following activities:
  - One half-day minimum will be spent helping the cooperating teacher "set up" the classroom—creating bulletin boards, arranging desks, entering names in the grade book, etc.
  - One half-day minimum is required to attend a pre-school professional development activity with the cooperating teacher, other teachers at the school, and the administration.
2. The Spring Intern will also be expected to attend his/her assigned school for the first full day of class (the Fall Intern is on-site as expected). The Spring Intern will be excused from a day of their scheduled classes at OPSU if the first day of public school falls on an OPSU class date. If this happens, the teacher candidate is to contact the Field Placement Director via phone, 580-349-1414. A memo will be issued to the appropriate OPSU professor explaining the absence.
3. The teacher candidate is required to write a 3- to 5-page reflection paper about these activities. They should interview the Cooperating Teacher regarding school and district procedures in order to fulfill this project.

It is expected that this August Experience will be one of the most beneficial of all pre-serviced experiences that OPSU can provide the teacher candidate. Therefore, there will be no exceptions to this requirement. All student teachers will participate or they will not be allowed to student teach that year.

## Important Information

Public school districts across the nation are implementing more restrictions regarding who is allowed on their campuses and who may interact with their students. The teacher education program at Oklahoma Panhandle State University will join other teacher preparation programs in Oklahoma to address the issue.

Any OPSU student who will enter a public school building for the purpose of observing and/or participating in the instruction of public school students will be required to have a current background check on file in the office of OPSU's Field Placement Director. OPSU must have the completed report on file prior to the student being placed in a classroom to meet course requirements.

The background check for each individual will include, but is not limited to, verifying residency history and social security status and accessing multiple county criminal records, statewide criminal records, and national sex offender records. OPSU will use the same business most other Oklahoma institutions are using, Castle Branch, and the reports are typically available 72 hours after the information is submitted to the company. The initial background check will be valid for one year from the date it is performed and must be renewed annually as long as the student attends OPSU. The cost of the initial background check is \$39 and for a recheck, the cost is \$17. Instructions for initiating the background check will be given to each student in every OPSU course that contains pre-service observations and experiences.

In the event that an OPSU student is identified with a negative background check, the student will not be assigned any pre-service observations or student teaching and will immediately be instructed to drop the course(s) he or she is taking. The student will also be removed from the OPSU Teacher Education Program.

Please direct any questions to Dr. Jerry Mihelic, OPSU's Director of Teacher Education at [580.349.1438](tel:580.349.1438) or by email at [jmihelic@opsu.edu](mailto:jmihelic@opsu.edu). Below is a link to the procedure for background checks: [portal.castlebranch.com/ok48](http://portal.castlebranch.com/ok48)

## Certification Requirements

All students graduating from an accredited institution of higher education and seeking to enter the public education system as a teacher shall be subject to the assessment, certification and licensing procedures established in the Oklahoma Teacher Preparation Act. All teacher candidates will be required to take and pass certification examinations that include subject area tests (OSAT), general education tests (OGET), and professional education tests (OPTE) before they will receive an Oklahoma teaching certificate. An elementary education candidate will be required to pass the elementary OPTE before receiving full certification, a secondary candidate will be required to pass the secondary OPTE, and the candidate seeking certification in a P-12 area must pass either the elementary or secondary OPTE.

In addition to the certification exams, the candidate seeking licensure or certification in the state of Oklahoma is also required to undergo an Oklahoma State Bureau of Investigation (OSBI) fingerprint and background check, as well as a fingerprint and background check by the Federal Bureau of Investigation (FBI). Additional information about this may be obtained from the Office of the Dean of Education.

## Additional Certification Areas

These are "add-on" areas. Student must first obtain an initial teaching certificate in their major area of study. Additional certification areas in Oklahoma are now "proficiency based." This means that a person seeking additional teaching areas will need to show proficiency in the selected area by passing the required exam(s). A person who wishes to add a teaching field to his/her initial certificate will be required to pass the selected Subject Area Tests (OSAT) Certification in elementary education, early childhood, and special education are not available as "add-on" areas.

There are no minimum number of course hours required before a person can sit for these exams. A person seeking to add other teaching areas to his/her initial teaching certificate is urged to talk to his/her advisor about suggested course work.

## Education Minor

There are multiple ways that a person can become certified to teach in secondary schools in Oklahoma and most other states. One method is the time-honored, research proven, effective path of traditional teacher preparation. This includes completing a national and/or state recognized program that contains not only the content classes of the particular major, but also the necessary pedagogical classes that train a person how to become a teacher. These programs conclude with the extremely valuable student teaching experience and result in the university recommending and the graduate for Oklahoma (or other states) Teaching Certification.

The other method of becoming licensed to teach in Oklahoma, and other states, is through Alternative Placement (alternative certification). This path begins with a person already holding a degree in an area that corresponds with a secondary or P-12 teaching area in the public schools (math, English, science, agriculture, music, HPE, etc.) and then applying directly to the respective State Department of Education for a teaching license. Alternative Placement is not available for elementary or early childhood teachers in Oklahoma.

### Application for Admission into the OPSU Education Minor

In order to help current OPSU students who are planning to apply for Alternative Placement upon graduation, the School of Education is offering a Minor in Education that contains valuable courses for graduates who may find themselves in a teaching position in the future. The Minor in Education consists of the following 18 hours and contains outside class assignments including observations and practicum activities:

Educ 2001-Education Seminar  
 Educ 2113-Introduction to Education  
 Educ 2213-Human Development: Child and  
     Adolescent Psychology  
 Educ 3223-Education of the Exceptional Child  
 Educ 4313-Educational Psychology  
 Educ 4322-Methods of Secondary Teaching  
 Educ 4533-Secondary Classroom Management and  
     Assessment

The OPSU student wishing to complete this minor must notify the office of the School of Education of his/her interest in obtaining the minor; must have and maintain an overall GPA of 2.50; and, according to the Oklahoma State Department of Education, “must not have been denied admittance to an approved teacher education program or enrolled in and subsequently failed required teacher education courses.”

EDUC 2001, EDUC 2113, and EDUC 2313 must be taken first followed by EDUC 3223 and EDUC 4313 in the next semester, and finally EDUC 4322 and EDUC 4533 in the final semester. A background check will be required before enrollment can be processed. Anyone convicted of a felony crime within the preceding ten (10) year period of making application for certification forfeits the right to obtain a teaching certificate (O.S. 70-3-104.1).

NOTE: This minor does not guarantee Teacher Certification in Oklahoma or any other state.

The application form for applying for the Education Minor is located on the OPSU website in “Downloads” under Education.

### Due Process Rights

A teacher candidate desiring to appeal any decision of the OPSU Director of Teacher Education may do so by filing a written request with the Director of Teacher Education. The written request must be received within ten (10) days following the notification of the decision.

Upon receipt of a written request appealing a decision, the Vice President for Academic and Student Affairs shall request each college dean to appoint one member from his/her college to serve on an appeals committee. The appeals committee shall meet within ten (10) days after receiving the student's written request to consider the written appeal, to hear the student's oral presentation, and to question the student whose presence is mandatory. A final decision must be rendered within ten (10) days after the initial meeting of the appeals committee. The Vice President for Academic and Student Affairs will serve as ex-officio chairperson of the appeals committee.

### Alternative Certification

Oklahoma Panhandle State University, working with the Oklahoma State Department of Education, will be happy to offer the required course work for graduates seeking alternative certification within the state of Oklahoma. Alternative certification is available for a person holding at least a baccalaureate degree in a field of study that corresponds to an area of Oklahoma certification for an elementary/secondary certificate, secondary certificate, or vocational-technical certificate. Alternative certificates are not available for elementary education or early childhood education. Required course work for alternative certification will be determined by the Oklahoma State Department of Education.

Persons wishing to complete the required courses assigned by the Oklahoma State Department of Education at OPSU must the application form (located on the OPSU website in "Downloads" under Education.) with all required attachments before they will be allowed to enroll in any classes required for alternate certification.

No one will be allowed to enroll in any professional education courses without the above documentation showing the eligibility requirements completed. Since some of the required courses may include public school involvement, a background check will be required before enrollment can be processed. Anyone convicted of a felony crime within the preceding ten (10) year period of making application for certification forfeits the right to obtain a teaching certificate (O.S. 70-3-104.1).

## **OPSU Professional Education Classes**

### **Pre-Professional Classes (non-restricted)**

Aged 3103-Introduction to the Teaching of Agriculture Education.  
 Aged 3203-Planning the Community Program in Agricultural Education  
 Educ 2001-Education Seminar  
 Educ 2113-Introduction to Education  
 Educ 2213-Human Development: Child and Adolescent Psychology  
 Educ 2233-Diversity in Education  
 Educ 2323-Reading in the Content Area  
 Educ 2623-Children's Literature  
 Mued 2113-Introduction to Music Education

### **Professional Elementary Education (restricted classes)**

Educ 3313-Foundations of Reading  
 (prerequisite for Educ 3233 and Educ 3253)  
 Educ 3233-Methods and Materials/Elementary Reading  
 Educ 3253-Diagnostics and Prescriptive Teaching of Reading  
 Educ 3333-Methods and Materials/Creative Arts  
 Educ 3563-Practicum I  
 Educ 4173-Methods and Materials/Elementary Math and Science  
 Educ 4223-Methods and Materials/Elementary Language Arts  
 Educ 4273-Practicum II  
 Educ 4323-Methods and Materials Elementary Social Studies  
 Educ 4433-Elementary Classroom Management and Assessment

### **Professional Secondary Education (restricted classes)**

Aged 4103- Methods of Teaching and Management in Agriculture Education  
 Aged 4362-Agriculture Education Tests and Measurements  
 Educ 4322- Methods and Materials of Secondary Teaching  
 Educ 4533-Secondary Classroom Management and Assessment  
 Math 4322-Methods and Materials Teaching Middle and Secondary Mathematics Education  
 Mued 3312-Elementary School Music Methods  
 Mued 3322-Secondary School Music Methods

### **Core Professional Education (restricted classes)**

Educ 3223-Education of the Exceptional Child  
 Educ 4313-Educational Psychology  
 Educ 4333-Educational Technology

### **Professional Semester (restricted classes)**

Educ 4450-Student Teaching in Elementary School  
 Educ 4720-Student Teaching in Secondary School  
 Educ 4750-Student Teaching in Elementary/Secondary School

### **Education degree programs are listed on the following pages:**

Agriculture Education.....	Page 88
Elementary Education.....	Page 126
Health and Physical Education .....	Page 128 (Teaching Option)
Mathematics.....	Page 100 (Teaching Option)
Music Education .....	Page 116

**Faculty Contact:** Dr. Jerry Mihelic  
 Assistant Professor, Education  
 123 Hamilton Hall  
 Phone: (580) 349-1438  
 E-mail: jmihelic@opsu.edu

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<b>Elementary Education (BS)</b>	<b>122</b>
	<b>Semester Hours</b>

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<b><u>General Education</u></b>	<b>40 hours</b>
<b>Communications</b>	9

Engl 1113-Freshman English I

Engl 1213-Freshman English II

Comm 1113-Speech Communication

<b>Mathematics</b>	3
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Math 1523-Modeling and Basic Statistics

<b>History and Political Science</b>	6
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Pols 1013-American Government

American History Elective

<b>Science</b>	8
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Choose at least one course from each area:

Biol 1304-Principles of Biology I

Physical Science with a Lab

<b>Humanities</b>	6
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Choose six hours from the following areas: philosophy, humanities, music appreciation, art appreciation, literature, introduction to theater, world history, music history, world religion, others as approved by VPAA.

<b>Behavioral Sciences</b>	6
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Sociology/Psychology elective

Economics elective

<b>Student Success</b>	1
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Ucss 1111-Student Success Seminar

**Liberal Arts and Science Elective**

(this will be fulfilled with the 4x12 - lower level)

<b><u>Co-Requisites and Pre-Professional Courses</u></b>	<b>12</b>
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Educ 2233-Diversity in Education

Educ 2113-Introduction to Education

Educ 2623-Children's Literature

Educ 2213-Human Development/Child and Adolescent Psychology

**Elementary Education Major Course work**

<b><u>Additional 4x12 Requirements</u></b>	<b>19</b>
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Engl 3013-English Usage

Math Elective

Math 2213-Structural Concepts/Primary

Math 2223-Structural Concepts/Intermediate

Geography Elective

Science Elective

<b><u>Elementary Education Core</u></b>	<b>27</b>
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\*Educ 3233-Methods and Materials Reading

\*Educ 3253-Diagnostics and Prescriptive Teaching of Reading

\*Educ 3313-Foundations of Reading Instruction (prerequisite for Educ 3233 and/or 3253)

\*Educ 3333-Methods and Materials Creative Arts

\*Educ 3563-Practicum I

\*Educ 4173-Methods and Materials Elementary Math/Science

\*Educ 4223-Methods and Materials Language Arts

\*Educ 4273-Practicum II

\*Educ 4323-Methods and Materials Social Studies

<b><u>Professional Education</u></b>	<b>25 hours</b>
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Educ 2001-Education Seminar

\*Educ 3223-Education of the Except. Child

\*Educ 4313-Educational Psychology

\*Educ 4333-Educational Technology

\*Educ 4433-Elementary Classroom Management and Assessment

\*\*Educ 4450-Student Teaching in Elementary Schools (12)

**\*Restricted Classes-Must be Admitted to Teacher Education prior to Enrolling.**

**\*\*Restricted Classes-Must be admitted to professional semester prior to enrolling.**

**All courses in the Elementary Major, Co-Requisites, and Professional Education must be passed with a grade of "C" or above.**

## Department of Health and Physical Education

**Department Chair:** Mr. Stacy Nordquist  
 Instructor, Health and Physical Education  
 Hamilton Hall Room 134  
 Phone: (580) 349-1425  
 E-mail: stacy.nordquist@opsu.edu

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<b>Health and Physical Education (BS)</b>	<b>120</b>
<b>Semester Hours</b>	

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**Academic Option (non-teaching)**

<b><u>General Education</u></b>	<b>40</b>
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**Mathematics**

Math 1473-Quantitative Reasoning

**Social Science**

Psyc 2123-Psychology of Personal Adjustment

<b><u>HPE Coursework</u></b>	<b>47</b>
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Biol 2205-Human Physiology

Hpe 1001-Lifetime Wellness

Hpe 2003-Introduction to Management and Instruction in Physical Activities

Hpe 2102-First Aid

Hpe 2122-Care and Prevention of Athletic Injury

Hpe 2212-School and Community Health

Programs

Hpe 2222-Personal Health and Drug

Hpe 2253-Foundations of Physical Education

Hpe 3162-Evaluations of Physical Activities

Hpe 3172-Adaptive and Therapeutic PE

Hpe 3263-Kinesiology

Hpe 3693-Physiology of Exercise

Hpe 4012-Skills and Techniques Team Act.

Hpe 4022-Skills and Techniques Individual and

Dual Activities

Hpe 4123-Organization and Admin. of Physical Education

**HPE Electives - choose 10 hours from:**

Biol 1123-Nutrition

Hpe 2012-Fundamentals and Coaching of Football

Hpe 2022-Fundamentals and Coaching of Basketball

Hpe 2032-Fundamentals and Coaching of Baseball and Softball

Hpe 2042-Officiating

Hpe 2052-Fundamentals and Coaching Track and Field

Hpe 2062-Fundamentals and Coaching Volleyball

Hpe 3072-Fundamentals and Coaching Strength and Conditioning

Hpe 3273-Internship I

Hpe 4273-Internship II

Hpe 4103-Sports Information Management

Hpe 4822-Exercise and Fitness Prescription

**Electives to have degree equal 120 hours**

**Selection of a minor is strongly encouraged.**

**No grade in the HPE core or electives below a "C" will be counted toward the HPE major (any option) or minor.**

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<b>Health and Physical Education (BS)</b>	<b>120</b>
<b>Teaching Option</b>	<b>Semester Hours</b>
<b><u>General Education</u></b>	<b>40</b>

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**Mathematics**

Math 1523-Modeling and Basic Statistics

**Social Science**

Psyc 2123-Psychology of Personal Adjustment

**Co-Requisites and Pre-Professional Courses** 9

Educ 2113-Introduction to Education

Educ 2233-Diversity in Education

Educ 3213-Human Development/Child and Adolescent Psychology

**HPE Core** 41

Biol 2205-Human Physiology (also counts as General Education Liberal Arts Elective)

Hpe 1001-Lifetime Wellness

Hpe 2003-Introduction to Management and Instruction in Physical Activities

Hpe 2102-First Aid

Hpe 2122-Care and Prevention of Athletic Injury

Hpe 2212-School and Community Health Programs

Hpe 2222-Personal Health and Drug

Hpe 2253-Foundations of Physical Education

Hpe 3162-Evaluations of Physical Activities

Hpe 3172-Adaptive and Therapeutic PE

Hpe 3263-Kinesiology

Hpe 3693-Physiology of Exercise

Hpe 4012-Skills and Techniques Team Act.

Hpe 4022-Skills and Techniques Individual and Dual Activities

Hpe 4123-Organization and Admin. of Physical Education

**HPE Electives - Select 5 hours from:**

Biol 1123-Nutrition

Hpe 2012-Fundamentals and Coaching of Football

Hpe 2022-Fundamentals and Coaching of Basketball

Hpe 2032-Fundamentals and Coaching of Baseball and Softball

Hpe 2042-Officiating

Hpe 2052-Fundamentals and Coaching Track and Field

Hpe 2062-Fundamentals and Coaching Volleyball

Hpe 3072-Fundamentals and Coaching Strength and Conditioning

Hpe 4103-Sports Information Management

Hpe 4822-Exercise and Fitness Prescription

**Professional Education** 25 hours

Educ 2001-Education Seminar

\*Educ 3223-Education of the Except. Child

\*Educ 4313-Educational Psychology

\*Educ 4333-Educational Technology

\*Educ 4533-Secondary Classroom Management and Assessment OR

Educ 4433-Elementary Classroom Management and Assessment

\*\*Educ 4750-Student Teaching in Elementary/Secondary Schools (12)

**\*Restricted Classes - Must be Admitted to Teacher Education prior to enrolling.****\*\*Restricted Classes - Must be admitted to the Professional Semester prior to enrolling.****No grade below "C" will be counted toward the HPE major (any option) or minor.****All courses in the HPE Core and Professional Education must be passed with a grade of "C" or above.**



**Physical Education Minor****20****Semester Hours**

Biol 2104- Human Anatomy  
 Hpe 2102-First Aid  
 Hpe 2122-Care and Prevention of Athletic Injury  
 Hpe 2253-Foundations of Physical Education  
 Hpe 3263-Kinesiology  
 Hpe 3693-Physiology of Exercise  
 Hpe 4123-Organization and Administration of HPE

**Coaching Minor****20****Semester Hours****Required**

Hpe 2102-First Aid  
 Hpe 2122-Care and Prevention of Athletic Injury  
 Hpe 4012-Skills and Techniques of Teaching Team Activities  
 Hpe 4022-Skills and Techniques of Teaching Individual/Team Activities.  
 Hpe 4123-Organization and Administration of HPE

**Choose 6 hours from:**

Hpe 2012-Fundamentals and Coaching Football  
 Hpe 2022-Fundamentals and Coaching Basketball  
 Hpe 2032-Fundamentals and Coaching Basketball  
 Hpe 2042-Officiating  
 Hpe 2052-Fundamentals and Coaching Track and Field  
 Hpe 2062-Fundamentals and Coaching Volleyball  
 Hpe 3072-Fundamentals and Coaching Strength and Conditioning

**Health and Physical Education (BS)****120****Semester Hours****Sports and Exercise Management****General Education****40****Mathematics**

Math 1513-College Algebra

**Social Science**

Psyc 2123-Psychology of Personal Adjustment

**Sports and Exercise Core****45**

Biol 2205-Human Physiology (also counts as General Education Liberal Arts Elective)  
 Hpe 1001-Lifetime Wellness

Hpe 2003-Introduction to Management and Instruction in Physical Education  
 Hpe 2102-First Aid

Hpe 2122-Care and Prevention of Athletic Injury  
 Hpe 2212-School and Community Health Programs

Hpe 2222-Personal Health and Drug  
 Hpe 2253-Foundations of Physical Education  
 Hpe 3162-Evaluation of Physical Activities  
 Hpe 3172-Adaptive and Therapeutic PE  
 Hpe 3263-Kinesiology

Hpe 3273-Internship I

Hpe 3693-Physiology of Exercise

Hpe 4012-Skills and Techniques of Teaching Team Activities  
 Hpe 4022-Skills and Techniques of Teaching Dual Activities

Hpe 4123-Organization and Administration of Physical Education  
 Hpe 4273-Internship II  
 Hpe 4822-Exercise and Fitness Prescription

Hpe 4273-Internship II

Hpe 4822-Exercise and Fitness Prescription

**Management Core****36**

Acct 2103-Financial Accounting

Acct 2203-Manual Accounting

Badm 2123-Microeconomics

Badm 3123-Business Law

Badm 3173-Business Communications

Badm 4603-Business Ethics

Cis 2013-Information Systems for Business

Cis 2223-Micro Applications

Fin 3773-Business Finance

Mgmt 3813-Principles of Management

Mgmt 4873-Human Resource Management

Mktg 3913-Principles of Marketing

**Electives****3**

Sufficient to equal 120 semester hours

## College of Business and Technology

### Dean:

Mr. Davin Winger  
Assistant Professor, Business Administration  
Carter Hall 101B  
Phone: (580) 349-1460  
E-mail: [dwinger@opsu.edu](mailto:dwinger@opsu.edu)

The College of Business and Technology at OPSU offers five business degrees: Accounting, Business Administration, Computer Information Systems, Industrial Technology, and Technology with various options in each degree. A curriculum of common business core courses is required for all majors in Business, Accounting, and Computer Information Systems. This core requires Math and Basic Statistics (Math 1523) or College Algebra (Math 1513) and Principles of Macroeconomics (Econ 2113). These two classes also satisfy general education requirements for mathematics and social/behavioral sciences. Two-year degree programs offered include: Associate of Science in Business Administration, Computer Information Systems, Associate of Applied Science in Technology with options in Drafting, Industrial Technology, Metal Technology, Emergency Medical Services, Technology, and a one-year certificate in Wind Energy/Maintenance Technology.

### Department of Accounting

#### Department Chair

Mrs. Robyn Harris  
Instructor, Accounting  
Carter Hall 101A  
Phone: (580) 349-1468  
E-mail: [robyn.harris@opsu.edu](mailto:robyn.harris@opsu.edu)

Every industry, including non-profit organizations, government agencies, for-profit companies large and small, and public accounting firms, needs accountants to manage recording and reporting financial information. Since the opportunities are so vast and varied, a person with a degree in accounting can combine a profitable and secure career with another field or area of interest. An accounting degree can take graduates into forensics, cost accounting, taxation, information technology, auditing, consulting, and many other areas. With an additional 30 credit hours, one can be eligible to become a Certified Public Accountant, a certification which brings more lucrative career possibilities. At OPSU, accounting majors build skill in courses such as cost accounting, auditing, public sector accounting, income tax procedure, federal tax research and more.

Accounting and AIS majors are required to complete macroeconomics, microeconomics, and college algebra for graduation. A grade of C or better is required for each course in the common Business Core and all business, accounting/AIS classes. A GPA of 2.0 for School of Business electives and an overall GPA of 2.0 is required for graduation.

<b>Accounting (BBA)</b>	<b>120</b>
<b>Semester Hours</b>	
<b><u>General Education</u></b>	<b>40</b>
<b><u>Major</u></b>	
<b><u>Business Core</u></b>	<b>36</b>
Acct 2103-Financial Accounting	
Acct 2203-Managerial Accounting	
Econ 2123-Microeconomics	
Badm 3123-Business Law I	
Badm 3173-Business Communications	
Badm 3613-Statistics	
Badm 4603-Business Ethics	
Cis 2013-Information Systems for Business	
Cis 2223-Micro Applications	
Fin 3773-Business Finance I	
Mgmt 3813-Principles of Management	
Mktg 3913-Principles of Marketing	
<b><u>Corequisite Requirements</u></b>	
(may be used for General Education requirements)	
Comm 1113-Speech Communications	
Econ 2113-Principles of Macroeconomics	
Math 1513-College Algebra OR	
Math 1523-Modeling and Basic Statistics	
<b><u>Accounting</u></b>	<b>24</b>
Ais 3013-Introduction to AIS	
Acct 3203-Elementary Cost Accounting	
Acct 3303-Intermediate Accounting	
Acct 3403-Advanced Intermediate Accounting	
Acct 4013-Income Tax Procedure I	
Acct 4303-Public Sector Accounting	
Acct 4503-Auditing	
Badm 3323-Business Law II	
<b><u>Accounting Electives</u></b>	<b>15</b>
Choose from any upper division Acct or AIS course.	
Acct 4023-Income Tax Procedure II	
Acct 4033-Tax Research	
Acct 4203-Advanced Cost Accounting	
Acct 4403-Advanced Accounting	
Acct 4000-Problems in Accounting	
Acct 4703-Internship	
Other upper-level Acct/Ais with Dept. Head Approval	
<b><u>Electives</u></b>	<b>5</b>
<b><u>Minor</u></b>	
Upon completion of the Accounting major, the student will have sufficient courses for a minor in Business Administration.	

<b>Accounting (BBA)</b>	<b>120</b>
<b>Accounting Information Systems Option (AIS)</b>	<b>Semester Hours</b>
<b><u>General Education</u></b>	<b>40</b>
<b><u>Major</u></b>	
<b><u>Business Core</u></b>	<b>36</b>
Acct 2103-Financial Accounting	
Acct 2203-Managerial Accounting	
Econ 2123-Microeconomics	
Badm 3123-Business Law I	
Badm 3173-Business Communications	
Badm 3613- Statistics	
Badm 4603-Business Ethics	
Cis 2223-Micro Applications	
Cis 2113-HTML and Web Page Design	
Fin 3773-Business Finance I	
Mgmt 3813-Principles of Management	
Mktg 3913-Principles of Marketing	
<b><u>Corequisite Requirements</u></b>	
(may be used for General Education requirements)	
Comm 1113-Speech Communications	
Econ 2113-Principles of Macroeconomics	
Math 1513-College Algebra OR	
Math 1523-Modeling and Basic Statistics	
<b><u>Accounting</u></b>	<b>24</b>
AIS 3013-Introduction to AIS	
Acct 3203-Elementary Cost Accounting	
Acct 3303-Intermediate Accounting	
Acct 3403-Advanced Intermediate Accounting	
Acct 4013-Income Tax Procedure I	
Acct 4303-Public Sector Accounting	
Acct 4503-Auditing	
Badm 3323-Business Law II	
<b><u>Accounting Electives</u></b>	<b>15</b>
Choose nine hours from:	
Ais 2513-Database Use and Data Analysis	
Ais 3103-Computer Applications for Accounting Majors	
Ais 3803-Accounting Information Technology	
Ais 4113-Accounting E-Commerce	
Ais 4223-Structured Systems Analysis	
Choose six hours from any upper division ACCT or AIS course.	
<b><u>Electives</u></b>	<b>5</b>
<b><u>Minor</u></b>	
Upon completion of the Accounting major with an AIS option, the student will have sufficient courses for a minor in Business Administration.	

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**Accounting (Minor) 18 Semester Hours**


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**Accounting 9**

Acct 2103-Financial Accounting

Acct 2203-Manual Accounting

Acct 3303-Intermediate Accounting

**Electives 9**

Choose nine hours from any upper division Acct or AIS course except Acct 3503.

An average G.P.A of 2.00 is required for the minor.

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## Department of Business Administration

**Department Chair** Dr. Sara Hitch  
Associate Professor, Business Administration  
Carter Hall 201A  
Phone: (580) 349-1442  
E-mail: sahitch@opsu.edu

The curriculum of the Department of Business Administration has been planned for a flexible, comprehensive, and interdisciplinary study of those functional areas closely related to the needs of today's businesses. To prepare students for the workplace or for further education, the program emphasizes communication, critical thinking, analytical, and soft skills. Graduates will be knowledgeable, functionally capable, informed about various disciplines, and equipped for further academic studies and/or job mobility, advancement, increased responsibility, and authority within the business world.

The department offers an Associate of Science Degree in Business Administration and/or a Bachelor's Degree in Business Administration. Students can add concentrations in management, marketing, finance, or general business to increase focus on specific interest areas. Minors in business administration, finance, management, and marketing are also available for business students and/or students in other fields of study.

A grade of C or better is required for each course in the common Business Core and all courses in the school of business including business minors.

**Faculty Contact:** Dr. Sara Hitch  
Associate Professor, Business Administration  
Carter Hall 201A  
Phone: (580) 349-1442  
E-mail: sahitch@opsu.edu

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**Business Administration (BBA) 120**  
**General Business Option Semester Hours**


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**General Education 40****Business Core 36**

Acct 2103-Financial Accounting

Acct 2203-Manual Accounting

Badm 2123-Microeconomics

Badm 3123-Business Law I

Badm 3173-Business Communications

Badm 3613-Statistics

Badm 4603-Business Ethics

Cis 2013-Information Systems for Business

Cis 2223-Micro Applications

Fin 3773-Business Finance I

Mgmt 3813-Principles of Management

Mktg 3913-Principles of Marketing

**Co-requisite Requirements**

(may be used for General Education requirements)

Comm 1113-Speech Communications

Econ 2113-Principles of Macroeconomics

Math 1513-College Algebra OR

Math 1523-Modeling and Basic Statistics

**General Business Concentration 12**

Fin 3783-Business Finance II OR

Acct 3203-Cost Accounting

Mktg 3373-Professional Selling OR

Mktg 3873-Advertising

Badm 3323-Business Law II

Mgmt 4013-Organizational Behavior

**Business Capstone 3**

Mgmt 4893-Small Business Management OR

Mgmt 4983-Strategic Management Bus. Policy

**School of Business Electives 9****Minor or Guided Electives 20**

A minor in an area of the student's choice or guided electives as agreed to by the advisor focusing on the student's career goals to bring upper level hours to 40 credit hours and total to 120 semester hours for graduation. These hours may be applicable toward a minor in any field that offers a minor or to a double major.

**Faculty Contact:** Dr. Sara Hitch  
Associate Professor, Business Administration  
Carter Hall 201A  
Phone: (580) 349-1442  
E-mail: sahitch@opsu.edu

<b>Business Administration (BBA)</b>	<b>120</b>
<b>Finance Option</b>	<b>Semester Hours</b>
<b><u>General Education</u></b>	<b>40</b>
<b><u>Business Core</u></b>	<b>36</b>
Acct 2103-Financial Accounting	
Acct 2203-Managerial Accounting	
Badm 2123-Microeconomics	
Badm 3123-Business Law I	
Badm 3173-Business Communications	
Badm 3613-Statistics	
Badm 4603-Business Ethics	
Cis 2013-Information Systems for Business	
Cis 2223-Micro Applications	
Fin 3773-Business Finance I	
Mgmt 3813-Principles of Management	
Mktg 3913-Principles of Marketing	
<b><u>Co-requisite Requirements</u></b>	
(may be used for General Education requirements)	
Comm 1113-Speech Communications	
Econ 2113-Principles of Macroeconomics	
Math 1513-College Algebra OR	
Math 1523-Modeling and Basic Statistics	
<b><u>Finance Concentration</u></b>	<b>12</b>
Fin 4063-Commercial Banking OR	
Fin 3573-Money and Banking	
Fin 3073-Principles of Insurance OR	
Fin 4083-Investments	
Fin 3783-Business Finance II	
Fin 4063-Financial Statement Analysis OR	
Fin 4000-Special Topics in Finance	
<b><u>Business Capstone</u></b>	<b>3</b>
Mgmt 4893-Small Business Management OR	
Mgmt 4983-Strategic Management Bus. Policy	
<b><u>School of Business Electives</u></b>	<b>9</b>
<b><u>Minor or Guided Electives</u></b>	<b>20</b>
A minor in an area of the student's choice or guided electives as agreed to by the advisor focusing on the student's career goals to bring upper level hours to 40 credit hours and total to 120 semester hours for graduation. These hours may be applicable toward a minor in any field that offers a minor or to a double major.	

**Faculty Contact:** Dr. Sara Hitch  
Associate Professor, Business Administration  
Carter Hall 201A  
Phone: (580) 349-1442  
E-mail: sahitch@opsu.edu

<b>Business Administration (BBA)</b>	<b>120</b>
<b>Management Option</b>	<b>Semester Hours</b>
<b><u>General Education</u></b>	<b>40</b>
<b><u>Business Core</u></b>	<b>36</b>
Acct 2103-Financial Acct	
Acct 2203-Managerial Acct	
Badm 2123-Microeconomics	
Badm 3123-Business Law I	
Badm 3173-Business Communications	
Badm 3613-Statistics	
Badm 4603-Business Ethics	
Cis 2013-Information Systems for Business	
Cis 2223-Micro Applications	
Fin 3773-Business Finance I	
Mgmt 3813-Principles of Management	
Mktg 3913-Principles of Marketing	
<b><u>Co-requisite Requirements</u></b>	
(may be used for General Education requirements)	
Comm 1113-Speech Communications	
Econ 2113-Principles of Macroeconomics	
Math 1513-College Algebra OR	
Math 1523-Modeling and Basic Statistics	
<b><u>Management Concentration</u></b>	<b>12</b>
Acct 3203-Cost Accounting OR	
Fin 3783-Business Finance II	
Mgmt 3703-Small Group Discussion OR	
Mgmt 4703-Organizational Communication OR	
Badm 3333-Industrial Psychology	
Mgmt 4873-Human Resource Management OR	
Mgmt 4133-Leadership	
Mgmt 4013-Organizational Behavior	
<b><u>Business Capstone</u></b>	<b>3</b>
Mgmt 4893-Small Business Management OR	
Mgmt 4983-Strategic Management and Business Policy	
<b><u>School of Business Electives</u></b>	<b>9</b>
<b><u>Minor or Guided Electives</u></b>	<b>20</b>
A minor in an area of the student's choice or guided electives as agreed to by the advisor focusing on the student's career goals to bring upper level hours to 40 credit hours and total to 120 semester hours for graduation. These hours may be applicable toward a minor in any field that offers a minor or to a double major.	

**Faculty Contact:** Dr. Sara Hitch  
Associate Professor, Business Administration  
Carter Hall 201A  
Phone: (580) 349-1442  
E-mail: sahitch@opsu.edu

<b>Business Administration (BBA)</b>	<b>120</b>
<b>Marketing Option</b>	<b>Semester Hours</b>
<b>General Education Requirements</b>	<b>40</b>
<b>Business Core</b>	<b>36</b>

Acct 2103-Financial Accounting  
Acct 2203-Manual Accounting  
Badm 2123-Microeconomics  
Badm 3123-Business Law I  
Badm 3173-Business Communications  
Badm 3613-Statistics  
Badm 4603-Business Ethics  
Cis 2013-Information Systems for Business  
Cis 2223-Micro Applications  
Fin 3773-Business Finance I  
Mgmt 3813-Principles of Management  
Mktg 3913-Principles of Marketing  
**Co-requisite Requirements**  
(may be used for General Education requirements)  
Comm 1113-Speech Communications  
Econ 2113-Principles of Macroeconomics  
Math 1513-College Algebra OR  
Math 1523-Modeling and Basic Statistics

<b>Marketing Concentration</b>	<b>12</b>
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Select 12 hours from the following:  
Mktg 3443-Consumer Behavior  
Mktg 3923-Professional Selling  
Mktg 3973-Advertising  
Mktg 4023-Retailing  
Mktg 4113-E-Commerce  
Mktg 4973-Purchasing  
Mktg 4993-Marketing Research

<b>Business Capstone Courses</b>	<b>3</b>
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Mgmt 4893-Small Business Management OR  
Mgmt 4983-Strategic Management Bus. Policy  
OR  
Mktg 4983-Strategic Marketing Management

<b>School of Business Electives</b>	<b>9</b>
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<b>Minor or Guided Electives</b>	<b>20</b>
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A minor in an area of the student's choice or guided electives as agreed to by the advisor focusing on the student's career goals to bring upper level hours to 40 credit hours and total to 120 semester hours for graduation. These hours may be applicable toward a minor in any field that offers a minor or to a double major.

**Faculty Contact:** Dr. Sara Hitch  
Associate Professor, Business Administration  
Carter Hall 201A  
Phone: (580) 349-1442  
E-mail: sahitch@opsu.edu

<b>Business Administration (BBA)</b>	<b>120</b>
<b>Wildlife Enterprise Management Semester Hours</b>	
<b>General Education Requirements</b>	<b>41</b>
<b>Business Core</b>	<b>36</b>

Acct 2103-Financial Accounting  
Acct 2203-Manual Accounting  
Econ 2123-Microeconomics  
Badm 3123-Business Law I  
Badm 3173-Business Communications  
Badm 3613-Statistics  
Badm 4603-Business Ethics  
Cis 2013-Information Systems for Business  
Cis 2223-Micro Applications  
Fin 3773-Business Finance I  
Mgmt 3813-Principles of Management  
Mktg 3913-Principles of Marketing  
**Co-Requisite Requirements**  
(included in General Education hours)

Econ 2113-Principles of Macroeconomics  
Math 1513-College Algebra

<b>Wildlife Enterprise Management Concentration</b>	<b>15</b>
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Wild 1012-Introduction to Natural Resources  
Wild 1014-Introduction to Natural History  
Wild 2013-Ecology and Natural Resources  
Wild 3013-Applied Ecology  
Wild 4503-Principles of Wildlife

<b>Wildlife Enterprise Management Marketing</b>	<b>18</b>
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Cis 2303-Lighting and Composition  
Cis 3393-Video Editing  
Cis 3123-Interactive Video  
Cis 2113-HTML  
Mktg 3973-Advertising  
Mktg 4113-E-Commerce

<b>Business Capstone</b>	<b>3</b>
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Mgmt 4893-Small Business Management

<b>School of Business Electives</b>	<b>7</b>
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Mktg 3923-Professional Selling  
Badm 4703-Business Internship  
Choose from any Acct, Cis, Badm or Indt course

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<b>Business Administration Minor</b>	<b>18</b>
	<b>Semester Hours</b>

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Acct 2103-Financial Accounting  
 Acct 2203-Managerial Accounting  
 Badm 3123-Business Law I  
 Fin 3773-Business Finance I OR  
     Badm 2013-Personal Finance  
 Mgmt 3813-Principles of Management  
 Mktg 3913-Principles of Marketing

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<b>Finance Minor</b>	<b>18</b>
	<b>Semester Hours</b>

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Fin 3373-Finance I  
 Fin 3783-Finance II  
**Select 12 hours from the following:**  
 Badm 2013-Personal Finance  
 Badm 3073-Principles of Insurance  
 Fin 3573-Money and Banking  
 Fin 4000-Special Topics in Finance  
 Fin 4063-Commercial Banking  
 Fin 4083-Investments  
 Fin 4603-Financial Statement Analysis

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<b>Management Minor</b>	<b>18</b>
	<b>Semester Hours</b>

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Mgmt 3813-Principles of Management  
 Mgmt 3703-Small Group Discussion  
     OR Mgmt 4803-Org. Communications  
     OR Badm 3333-Industrial Psychology  
 Mgmt 4893-Small Business Management OR  
     Mgmt 4983-Strategic Management and Policy  
**Select 9 hours from the following:**  
 Acct 3503-Advanced Managerial Accounting  
 Badm 3373-Real Estate  
 Badm 4403-Labor Relations  
 Mgmt 4013-Organizational Behavior  
 Mgmt 4133-Leadership  
 Mgmt 4813-Office Management  
 Mgmt 4873-Human Resource Management  
 Mgmt 4893-Small Business Management  
 Mgmt 4983-Strategic Management and Policy

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<b>Marketing Minor</b>	<b>18</b>
	<b>Semester Hours</b>

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Mktg 3913-Principles of Marketing  
**Select 15 hours from the following:**  
 Mktg 3443-Consumer Behavior  
 Mktg 3923-Professional Selling  
 Mktg 3943-Sales Promotion  
 Mktg 3973-Advertising  
 Mktg 4023-Retailing  
 Mktg 4113-E-Commerce  
 Mktg 4973-Purchasing  
 Mktg 4983-Strategic Marketing Management  
 Mktg 4993-Marketing Research  
 Up to 3 hours of Psychology or Sociology may be  
 substituted at the discretion of the marketing faculty.

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<b>Economics Minor</b>	<b>18 Semester Hours</b>
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Badm 3573-Money and Banking  
 Badm 3613-Statistics  
 Economics electives (12 hours)  
 (Except Econ 2013-Elements of Economics)

## Department of Computer Information Systems

**Department Chair** Mr. Steve Martin  
Associate Professor, Computer Information Systems  
Carter Hall 106  
Phone: (580) 349-1456  
E-mail: stevem@opsu.edu

OPSU offers a Bachelor of Business Administration in Computer Information Systems, an Associate of Science in Business Administration with a Computer Information Systems concentration and minors in Computer Information Systems and Computer Graphics.

The CIS BBA degree builds a solid foundation based upon the five components of an information system: hardware, software, data, procedures, and people. Students develop these skills through courses focused on hardware and software, networks, databases, programming, web technologies, security, operating systems and virtualization, and systems analysis and design. OPSU provides a rich selection of information systems electives to enhance and strengthen the students' knowledge base. As information systems are business driven, all CIS BBA graduates are required to take a core of business courses in addition to CIS courses.

CIS students have access to well-equipped labs with diverse computer environments including Microsoft Windows, Mac OS X, varied Linux platforms, virtualization environments, and networking equipment. Students graduate from OPSU with practical experience that prepares them for the work force and lifetime learning.

The CIS department is highly regarded on campus, in the state of Oklahoma, and nationally. Our students have achieved more than 100 top 10 finishes in regional and national competitions since 1998. The CIS department was awarded one of four "Program of Excellence" grants by the Oklahoma State Regents for Higher Education.

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<b>Computer Information Systems (BBA)</b>	<b>120</b>
<b>Semester Hours</b>	

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<b><u>General Education</u></b>	<b>40</b>
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<b><u>Business Core</u></b>	<b>30</b>
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Acct 2103-Financial Accounting  
Acct 2203-Managerial Accounting  
Badm 3173-Bus Communications OR  
Badm 3023-Technical Writing  
Badm 3123-Business Law I OR  
Badm 3323-Business Law II  
Badm 3613-Statistics  
Badm 4603-Business Ethics  
Econ 2123-Principles of Econ (Micro)  
Fin 3773-Business Finance I OR  
Badm 2013-Personal Finance  
Mktg 3913-Principles of Marketing  
Mgmt 3813-Principles of Management  
**Corequisite Requirements** (may be used for General Education Requirements)  
Comm 1113-Speech Communications  
Econ 2113-Principles of Macroeconomics  
Math 1513-College Algebra OR  
Math 1523-Modeling and Basic Statistics

<b><u>Major Area</u></b>	<b>33</b>
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Cis 1113-Introduction to CIS  
Cis 1983-Logic and Design  
Cis 2113-HTML and Web Page Design  
Cis 2123-Programming I  
Cis 2323-Networking Fundamentals  
Cis 2513-Database Use/Data Analysis  
Cis 2723-Introduction to Operating Systems  
Cis 2803-Managing/Maintaining Computer Hardware  
Cis 2813-Managing/Maintaining Computer Software  
Cis 3893-Network Security

**Students must choose 3 hours from:**

Cis 4113-Advanced Programming  
Cis 4123-Advanced Web Design  
Cis 4213-Applied Networking II  
Cis 4333-Advanced Database  
Cis 4933-Capstone Project/Internship

<b><u>Additional Major Hours</u></b>	<b>12</b>
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**Students must take 12 hours from the following courses:**

Cis 2000-Special Topics in Information Systems  
Cis 2103-Information Systems for Business



Cis 3123-Website Design  
 Cis 2823-Applied Networking I  
 Cis 3533-Digital Forensic Investigation  
 Cis 3613-Intermediate Programming  
 Cis 3723-Operating Systems  
 Cis 3833-Network Server Administration  
 Cis 4000-Problems: Computer Information Systems  
 Cis 4113-Advanced Programming  
 Cis 4123-Advanced Web Design  
 Cis 4213-Applied Networking II  
 Cis 4223-Systems Analysis and Designs  
 Cis 4333-Advanced Database  
 Cis 4613-Applied Networking III  
 Cis 4700-CIS Internship  
 Cis 4993-Capstone Project

**The 12 hours may include only one of the following courses:**

Cis 2223-Micro Applications  
 Cis 2623-2D Graphics  
 Cis 3113-3D Modeling I  
 Cis 3393-Video Editing  
 Cis 4233-Game Level Design  
 Cis 4413-Web Animation

**Electives**

**4**

Sufficient courses to bring upper level hours to 40 credit hours and total to 120 semester hours for graduation.

**Minor**

Upon completion of the CIS major, the student will have sufficient courses for a minor in business administration.

A GPA of 2.0 is required in the business core. Grades of C or better are required in major area and additional major hour courses.

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**Computer Information Systems Minor      18**  
**Semester Hours**
**Select 18 hours from the following courses:**

Cis 1983-Programming Logic  
 Cis 2103-Information Systems for Business  
 Cis 2113-HTML and Web Page Design  
 Cis 2123-Programming I  
 Cis 2223-Micro Applications  
 Cis 2323-Networking Fundamentals  
 Cis 2513-Database Use and Data Analysis  
 Cis 2803-Managing and Maintaining Computer Hardware  
 Cis 3123-Web Site Design  
 Cis 3213-Applied Networking I  
 Cis 3893-Network Security  
 Cis 3613-Intermediate Programming  
 Cis 3723-Operating Systems  
 Cis 3803-Managing and Maintaining Computer Software  
 Cis 3833-Network Operation, Administration, and Management  
 Cis 4113-Advanced Programming  
 Cis 4212-Applied Networking II  
 Cis 4223-Structured Systems Analysis  
 Cis 4413-Web Animation  
 Cis 4333-Advanced Database  
 Cis 4993-Capstone Project

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**Computer Graphics Minor      18**  
**Semester Hours**

Cis 2623-2D Graphics  
 Cis 3313-3D Modeling  
 Cis 3393-Graphic/Video Editing and Composition

**Choose 9 hours from the following:**

Cis 2613-Typography  
 Cis 2633-Audio for Video  
 Cis 2113-HTML and Web Page Design  
 Cis 3413-Post Production  
 Cis 3343-3D Dynamics  
 Cis 3383-Advanced Modeling  
 Cis 4233-Game Level Design  
 Cis 4243-Computer Animation  
 Cis 4413-Web Animation  
 Cis 4443-Senior Project

## Department of Industrial Technology

**Department Chair** Mr. Matthew Carter  
 Assistant Professor, Computer Information Systems  
 Carter Hall 104B  
 Phone: (580) 349-1454  
 E-mail: matthewc@opsu.edu

The Department of Industrial Technology offers bachelor's degrees with options in Industrial Technology, Technology, and Industrial Business Management.

Industrial Technology also offers two-year programs leading to the Associate of Applied Science degree in Technology with an option in Drafting and Industrial Technology, Industrial Technology, Metal Technology, Emergency Medical Services, Fire Protection or Technology. Requirements for these degrees are listed in the Associates Degree section of the catalog.

The purpose of the Department of Industrial Technology is to provide the student with skills and knowledge of materials and manufacturing processes, drafting and design concepts, and power and equipment technology. These fields of study would provide the necessary skills and knowledge for successful careers in industrial areas.

This department endeavors to serve those students who plan to become engineers, carpenters, draftsmen, construction supervision, etc.; those who are majoring in other work but desire some training in this area; and those who choose Industrial Technology as a minor.

<b>Industrial Technology (BIND)</b>	<b>120</b>
<b>Industrial Business Management Option</b>	<b>Semester Hours</b>
<b>General Education</b>	<b>40</b>
<b>Industrial Technology Core</b>	<b>24</b>
Indt 1012-Drafting Technology	
Indt 1013-Woodworking Fundamentals	
Indt 1103-Applied Electricity I	
Indt 1222-General Metals Processing	
Indt 1432-Construction Skills and Safety	
Indt 1433-Welding Level I	
Indt 2013-Machine Wood Technology	
Indt 2113-Introduction to CAD	
Indt 2423-Welding Level II	
<b>Industrial Technology Electives</b>	<b>9</b>
A student must select additional hours to bring the total to 33 hours of Industrial Technology courses.	
<b>Common Business Core</b>	<b>33</b>
Acct 2103-Financial Accounting	
Acct 2203-Manual Accounting	
Cis 2013-Information Systems for Business	
Econ 2123-Microeconomics	
Cis 2223-Micro Applications	
Badm 3123-Business Law I	
Badm 3173-Business Communications	
Badm 3613-Statistics	
Fin 3773-Business Finance I	
Mgmt 3813-Principles of Management	
Mktg 3913-Principles of Marketing	
<b>Electives</b>	<b>14</b>
Additional courses are required to bring the upper level hours to 40 and total to 120 hours for graduation. A minor in any field in which a minor is offered or a second major may be selected.	

<b>Industrial Technology (BIND)</b>	<b>120</b>
<b>Industrial Technology Option</b>	<b>Semester Hours</b>

<b><u>General Education</u></b>	<b>40</b>
<b><u>Industrial Technology Core</u></b>	<b>24</b>

Indt 1012-Drafting Technology  
 Indt 1013-Woodworking Fundamentals  
 Indt 1103-Applied Electricity I  
 Indt 1222-General Metals Processing  
 Indt 1432-Construction Skills and Safety  
 Indt 1433-Welding Level I  
 Indt 2013-Machine Wood Technology  
 Indt 2113-Introduction to CAD  
 Indt 2423-Welding Level II

<b><u>Industrial Technology Electives</u></b>	<b>32</b>
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A student must select additional hours to bring the total to 56 hours of Industrial Technology.

<b><u>Electives</u></b>	<b>24</b>
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Additional courses are required to bring the upper level hours to 40 and total to 120 hours for graduation. A minor in any field in which a minor is offered or a second major may be selected

<b>Industrial Technology (Minor)</b>	<b>18</b>
	<b>Semester Hours</b>

<b>Minor</b>	<b>18</b>
<b>Industrial Technology Courses</b>	

At least one course must be selected from each of the following areas: drafting, metals or power mechanics, and wood manufacturing.

<b>Technology (BTEC)</b>	<b>120</b>
	<b>Semester Hours</b>

Students may complete the Bachelor of Technology with major emphasis in the following areas: Computer Graphics (see pg. 112), Accounting, Agronomy, Allied Health Science, Animal Science, Biology, Business Administration, Business Education, Chemistry, Computer Information Systems, Health and Physical Education, Industrial Technology, Mathematics, Natural Science, Physics, Psychology, etc.

To be admitted to candidacy for the degree, the student may have completed either a one- or two-year technical program at an institution accredited by a regional accrediting agency. If the credit earned is from a non-accredited institute, the student transferring to OPSU must use the same procedures as regular college students from non-accredited institutions.

The program of studies for those candidates having completed a one-year program will be developed within the following framework:

<b><u>General Education</u></b>	<b>40</b>
<b><u>Transferred Major</u></b>	<b>32</b>
from an approved one-year technical program	
<b><u>Residence Major</u></b>	<b>33</b>
Required hours in major area to complete residence requirements.	
<b><u>Residence Minor</u></b>	<b>15</b>
Electives to total 120	

The program of studies for those candidates having completed a two-year program will be developed within the following framework:

<b><u>General Education</u></b>	<b>40</b>
<b><u>Transferred Major</u></b>	<b>49</b>
from Associate of Technology program	
<b><u>Residence Major</u></b>	<b>16</b>
Required hours in major area to complete residence requirements.	
<b><u>Residence Minor</u></b>	<b>15</b>
Electives to total 120	

## DESCRIPTION OF COURSES

### Explanation of Course Numbers and Descriptions

All courses are identified by numbers composed of four digits. The first digit indicates the class year in which the subject is normally taken although enrollment is not exclusive as to student classification; the second and third digits identify the course within the field, and the last digit identifies the number of semester credit hours that the course carries. A course number beginning with "0" indicates that the course does not carry university credit. A course number ending in "0" indicates that the course carries variable credit. Prerequisites are listed at the beginning of each course description. All courses will not be offered every semester; departments will use some form of course rotation which takes into consideration necessary prerequisites. On rare occasions, a student may be required to take a course by arrangement or use an approved substitution for a program course requirement.

The symbol "+" signifies a course that counts towards Liberal Arts and Sciences credits

The symbol "\*\*\*" signifies a course that counts towards Humanities credits

### ACCOUNTING (ACCT)

**2103 Financial Accounting**  
(Fall/Spring/Summer)  
**3 credit hours**

*Prerequisite or Corequisite:* MATH 1513 or satisfactory score on placement test. Financial accounting concepts related to the processes and principles of accrual accounting and the preparation of financial statements and reports for parties external to the firm.

**2203 Managerial Accounting**  
(Fall/Spring/Summer)  
**3 credit hours**

*Prerequisite:* ACCT 2103 or consent of instructor. Managerial accounting concepts and objectives, planning and control of sales and costs, analysis of costs and profits.

**3203 Elementary Cost Accounting**  
(Fall)  
**3 credit hours**

*Prerequisite:* ACCT 2203. A study of the procedures, concepts, and purposes underlying the systems and methods of product costing. Cost control, cost analysis, and report preparation are emphasized.

**3303 Intermediate Accounting**  
(Fall)  
**3 credit hours**

*Prerequisite:* ACCT 2203. Accounting theory, concepts, and practice related to major financial statements, accounting process, revenue cycle, inventory, and financing.

**3403 Advanced Intermediate Accounting**  
(Spring)  
**3 credit hours**

*Prerequisite:* ACCT 3303. Accounting theory, concepts, and practice related to investments, leases, taxes, employee compensation, earnings per share, and analytical processes.

**3503 Advanced Managerial Accounting**  
(Even Fall)  
**3 credit hours**

*Prerequisite:* ACCT 2203. A study of managerial cost control, capital budgeting, organizational performance, cost analysis techniques, cost management practices.

**4000 Problems in Accounting**  
(Fall/Spring)  
**1-3 credit hours**

*Prerequisite:* 21 credit hours of accounting and consent of instructor. The course is designed to give the accounting major an opportunity for advanced study and practice in selected areas of accounting. May be repeated for a total of 6 hours credit.

**4013 Income Tax Procedure I**  
(Fall)  
**3 credit hours**

*Prerequisite:* Six hours of accounting. Study of individual taxation, present income tax laws, tax problems, and business income and expenses.

**4023 Income Tax Procedure II  
(Spring)**

**3 credit hours**

*Prerequisite: ACCT 4013.* Study of property transactions, partnership, corporation, estate and trust taxation, present income tax laws, and tax problems.

**4033 Tax Research  
(Spring)**

**3 credit hours**

*Prerequisite: ACCT 4013.* Study of tax research methodology, internal revenue code, regulations and rulings, judicial interpretations, citator, and tax services using case studies.

**4083 Investments Analysis  
(Spring)**

**3 credit hours**

*Prerequisites: FIN 3773 or FIN 3783.* A study of investments, securities, sources of investment information, asset allocation, the security markets, and elements of analysis. This course includes impact of investments on financial statements.

**4203 Advanced Cost Accounting  
(Spring)**

**3 credit hours**

*Prerequisite: ACCT 3203.* Study of special cost and analysis problems used in making production and operation management decisions. Planning, control, and performance evaluation/measurement in the decision-making process address areas of productivity, quality, customer service, and product/process strategy.

**4303 Public Sector Accounting  
(Fall)**

**3 credit hours**

*Prerequisite: ACCT 3403.* Study of governmental and not-for-profit accounting. Analysis of funds and accounting principles that reflect activity for governmental units, universities, hospitals, and other public sector entities.

**4403 Advanced Accounting  
(Spring)**

**3 credit hours**

*Prerequisite: ACCT 3403.* Study of business combinations, consolidated financial statements, partnerships, bankruptcy, receivership, estates and trusts, and foreign currency transactions.

**4503 Auditing  
(Fall)**

**3 credit hours**

*Prerequisite: ACCT 3303 and ACCT 3403.* Generally accepted auditing standards and procedures, audit evidence, audit reports and opinions, statistical sampling, internal control, legal liability, and ethics.

**4603 Financial Statement Analysis  
(Fall)**

**3 credit hours**

Advanced course on methods of analyzing financial position, trends, and prospects of a company using the available financial statements.

**4700 Accounting Internship  
(Fall/Spring)**

**1-3 credit hours**

*Prerequisite: 15 hours of accounting and consent of instructor.* Supervised professional-level accounting assignment with a public, private, or governmental organization. May be repeated for a total of six hours of credit.

## **ACCOUNTING INFORMATION SYSTEMS (AIS)**

**2513 Database Use and Data Analysis  
(Fall)**

**3 credit hours**

Includes data analysis, ER diagrams, and database design concepts. DB table creation, load, modify, form, report, and query design and creation. Introduction to SQL.

**3013 Introduction to AIS****(Spring)****3 credit hours**

*Prerequisite:* ACCT 2203 and CIS 2223 with a grade of “C” or better. This course provides an overview of accounting information systems and illustrates the importance of transaction processing and entry. Students are exposed to a variety of information systems, including manual and automated systems. Specific use of systems understanding aids and accounting software packages.

**3103 Computer Applications for Accounting Majors****(Fall - Odd Years)****3 credit hours**

*Prerequisite:* ACCT 2203 and CIS 2223 with a grade of “C” or better. The use of the computer to aid an accounting student in upper level accounting and AIS classes. Emphasis is on the use of the Internet, spreadsheets, databases, and specific accounting software packages.

**3803 Accounting Information Technology****(Even Fall)****3 credit hours**

*Prerequisite:* ACCT 2203 and CIS 2223 with a grade of “C” or better. Technology concepts needed by accounting students for successful job performance. Will include hands-on hardware and software maintenance, repair, installation, and configuration of peer-to-peer and client server networks.

**4113 Accounting E-Commerce****(Odd Fall)****3 credit hours**

*Prerequisite:* ACCT 2203 and CIS 2223 with a grade of “C” or better. A study of the procedures, concepts, and purposes underlying the development of accounting web-based systems. Examines web page development, accounting systems, and security and control issues of web-based businesses.

**4223 Structured Systems Analysis****(Spring)****3 credit hours**

*Prerequisite:* AIS 3803 or consent of instructor. Overview of system development life cycle and system documentation. Includes data flow, data structure, file designs, input and output design, program specifications, information gathering, and reporting activities, as well as CASE tools and techniques of systems analysis.

**AGRICULTURE (AG)****1011 Introduction to the Agriculture Industry****(Fall/Spring)****1 credit hour**

General survey of the agricultural industry and its resources, including career opportunities in the various fields of agriculture. Program and course selection as related to occupational fields will be discussed.

**1022 Mathematical Applications in Agriculture****2 credit hours**

Agricultural concepts that utilize mathematics to be discussed include unit conversions, percentages, rations, concentrations, data interpretation, labor requirements, land area measurements, pesticide/fertilizer application rates, seeding/planting calculations, storage of products by volume and area, determination of fencing materials, temperature conversions and degree day units, stocking rate calculations, genetic moisture, livestock rations, including Pearson square, agribusiness calculations including taxes, net worth, profit and equity. There will be emphases on using computer spreadsheet programs like Microsoft Excel.

**1124 Farm and Ranch Management****(Fall)****4 credit hours**

Designed to provide the student with the basic management skills, economic background, and practical experience needed to manage a farm and ranch operation.

- 2183 Swine Management I (Fall)**  
**3 credit hours**  
 General overview of the swine industry and its contribution to the American economy. It will emphasize the aspects of management important to the swine industry with specific emphasis on swine genetics and breeding; health and reproduction; nutrition and feeding; growth and development; and marketing systems.
- +2343 Agriculture Economics (Fall/Spring)**  
**3 credit hours**  
 Principles of farm production, farm management, agricultural resources, and agriculture policy.
- 2594 Swine Management Internship (Offered as needed)**  
**4 credit hours**  
 Developing a working knowledge in the operation of commercial swine management programs. The student shall be employed at a local swine management facility or work at the university swine management facility for a total accumulative of not less than 360 hours work experience. The student will meet with swine management supervisors each week during working hours in the swine management program.
- 2832 Swine Management II (Spring)**  
**3 credit hours**  
 Continuation of Swine Management I, which will cover life cycle swine production and management. Life cycle swine management includes all breeding, gestation, farrowing, aspects of nursery management, and growing-finishing swine.
- 2982 Agri-Business Management (Spring)**  
**2 credit hours**  
 Designed to serve as a course for economic rural and community development. The implementation and administration of a borrower training course. It will help borrowers to develop skills necessary for successful, efficient production and financial management of a farm business. It will cover business planning, financial management systems, crop production, and livestock production.
- +3113 Intermediate Microeconomics (Every Other Fall)**  
**3 credit hours**  
*Prerequisite: ECON 2123.* How economists use economic theory to model and analyze microeconomies. For this focus, most of the course will concentrate on firm-level and individual industries. The evaluation of firm-level decision making as it pertains to how firms operate.
- 3144 Modern Agriculture Management (Spring)**  
**4 credit hours**  
 Complete overview of all aspects of farm and ranch management. It emphasizes the use of economic tools in decision making. It covers step-by-step procedures that simplify farm planning activities and insure compatibility among alternate farm plans for the purpose of maximizing returns.
- +3213 Quantitative Agricultural Economics (Fall)**  
**3 credit hours**  
*Prerequisite: AG 2343 and MATH 1513.* Emphasizes indices, graphics, budgeting, discounting, basic statistical measures, use of microcomputers, and price analysis. Basic background involving business analysis.
- +3313 Intermediate Macroeconomics (Every Other Spring)**  
**3 credit hours**  
*Prerequisite: ECON 2113.* How economists use economic theory to model the macroeconomy. For this focus, most of the course will concentrate on learning and understanding economic theory. The evaluation of theory as a viable explanation of how the economy works will be explained for the students to understand that explanatory power is the true measure of the effectiveness of a theory. To evaluate this, an understanding of how the economy works will be necessary.



- 3573 Money and Banking**  
**(Spring)**  
**3 credit hours**  
*Prerequisite:* Ag 2343, ECON 2113, ECON 2123, or consent of instructor. Modern currency, banking, credit and their places in present financial organization.
- 4000 Studies in Agriculture**  
**(Offered as needed)**  
**1-3 credit hours**  
 Designed for specific topics in agriculture.
- 4983 Agricultural Marketing**  
**(Fall/Spring)**  
**3 credit hours**  
*Prerequisite:* ECON 2123 or ECON 2343. Designed to increase the agricultural related businessman's knowledge primarily in the areas of commodities, grain, and livestock marketing with particular emphasis on hedging practices and principles.

## **AGRICULTURAL EDUCATION (AGED)**

- 3101 Observation and Participation in Secondary Ag Ed Programs**  
**1 credit hour**  
 Forty-five clock hours will be spent in observing and participating in high school Ag-Ed programs. Diversity in public school setting and participation in classroom teaching, laboratory activities, supervised agricultural experiences, and FFA activities are required.
- 3102 Foundations of Agricultural Education**  
**(Fall)**  
**2 credit hours**  
 Study of foundations, history, and philosophy of technical education. Study of the diversity of public school students and diversity of agricultural education programs in the public schools. Technical education as it applies to high school students and their future plans will also be considered. Major emphasis on admission to teacher education and competencies required for teacher education.
- 3203 Planning the Community Program in Agricultural Education**  
**(Spring)**  
**3 credit hours**  
*Prerequisite:* AGED 3102. Determining the agricultural resources and trends of a community, planning a long-time agricultural program including objectives and success factors, and planning the annual program.
- 3331 Technology in Agricultural Education**  
**1 credit hour**  
*Prerequisite:* AGED 3103. Designed to introduce students to new and emerging areas in Agricultural Science and Education for future Agricultural Education instructors. Emphasis will be placed on selection and design of technology as it relates to learning tools. The course will explore topics related to current technology and media. Students will plan and develop lesson plans utilizing technology appropriate to the educational setting.
- 4000 Problems in Agricultural Education**  
**(Spring or as needed)**  
**1-3 credit hours**  
*Prerequisite:* Consent of instructor and junior or senior standing. Problems and/or independent study course in agricultural education.
- 4103 Methods of Teaching and Management in Vocational Agriculture**  
**(Spring)**  
**3 credit hours**  
*Prerequisite:* AGED 3103 and AGED 3203, junior standing in College of Agriculture, Science, and Nursing, and admission in to the Teacher Education Program. This course acquaints students with the work of the teacher of vocational agriculture and prepares them for student teaching to be completed during the academic year.
- 4362 Agriculture Education Tests and Measurements**  
**2 credit hours**  
*Prerequisite:* Admission in to Teacher Education Program. Acquaints students with techniques and principles utilized in measuring student achievement within agricultural education classrooms. Study of essay and objective tests and their construction, standard scores and grading systems, standardized tests, and the use of educational research are included in course content.

**\*AGRICULTURE MECHANIZED (AGME)**

- 1103 Applied Electricity Principles**  
(Fall)  
**3 credit hours**  
Covers electricity principles, including proper use of test equipment, AC and DC circuits, and component theory and operation.
- 1222 General Metals Processing**  
(Fall)  
**2 credit hours**  
Fundamental processes on standard machines, such as turning, boring, shaping, milling, and cutting threads.
- 1433 Welding Level I**  
(Fall)  
**3 credit hours**  
Principles and practices of welding with practical application.
- 2423 Welding Level II**  
**3 credit hours**  
*Prerequisite: INDT 1433 or AGME 1433.* Provides technical training and skills needed to receive a welding certificate. Course covers the following areas: welding symbols, reading of welding detailed drawings, physical characteristics and mechanical properties of metal, preheating and postheating of metals, GMAW and FCAW equipment and filler metals, GMAW plate welds, FCAW Plate welds, GTAW equipment and filler metals, and GTAW plate welds.
- 3323 Welding Level III**  
(Spring)  
**3 credit hours**  
*Prerequisite: AGME 1433 or consent of instructor.* Principles of welding with practical application.
- 3413 Foundry and Forge Manufacturing Processes**  
(Every other Fall)  
**3 credit hours**  
*Prerequisite: Four credit hours of metals.* Foundry fundamentals including basic principles and techniques in producing manufactured products by foundry and forging methods. Making simple patterns, molds, and cores; working with sand and environments; casting with low temperature metals. The study of elementary forge practices and heat treatment of metals.
- 3643 Power Mechanics I**  
(Fall/Spring)  
**3 credit hours**  
Basic course in mechanics and physics of the automobile. A study of the principles and fundamentals of the gasoline engine, electrical system, ignition, hydraulics, fuels, and lubrications as applied to the automobile. Introduction to the practical use of tools and equipment made in the laboratory.
- 3653 Power Mechanics II**  
(Every other Spring)  
**3 credit hours**  
*Prerequisite: AGME 3643.* Basic principles of automotive mechanics. Advanced study in rebuilding procedures for automotive engines, drive trains, and transmissions will be taught.
- 4000 Problems in Mechanized Agriculture**  
(Fall)  
**1-2 credit hours**  
This class will be taught by arrangement for students who need credit in mechanized agriculture and are unable to schedule a regularly scheduled class. Problems will be designed around students' needs and availability of problem area materials.
- 4122 Building and Construction Techniques**  
(Every other Spring)  
**2 credit hours**  
Elements of farm building construction; methods and practice in cutting rafters as used in building construction.

- 4623 Welding Level IV**  
**(Fall)**  
**3 credit hours**  
*Prerequisite:* AGME 1432 and AGME 3322. Practice in both arc and acetylene welding to help develop the skills after fundamentals have been learned, with emphasis on Mig and Tig welding. Including welding aluminum and stainless steel.

## **AGRONOMY (AGRN)**

- 1213 Fundamentals of Plant Science**  
**(Fall)**  
**3 credit hours**  
 Factors determining economic plant distribution, culture, improvement, and utilization with emphasis on the principles of crop production.
- 2111 Plant and Seed Identification**  
**(Fall)**  
**1 credit hours**  
 Laboratory only. Identification of plants and seeds of agronomically important crops, forage plants, and weed species.
- 2124 Fundamentals of Soil Science**  
**(Spring)**  
**4 credit hours**  
 General course dealing with the origin, formation, composition, and classification of soils and the principal chemical, physical, and biological properties of soils in relation to plant growth, soil productivity, and land use.
- 3133 Introduction to Biotechnology**  
**(Spring, odd years)**  
**3 credit hours**  
 Study of genetic changes to agronomic crops that have led to enhanced production, improved food quality, reduced pesticide use, and controversy over health and environmental affects.
- 3213 Pasture and Forage Crops**  
**(Spring)**  
**4 credit hours**  
*Prerequisite:* AGRN 1214. Production and utilization of forage crops. Development of forage programs for livestock production, including introduced pasture and stored forages.
- 3223 Grain, Oilseed, and Pulse Crops**  
**(Fall)**  
**3 credit hours**  
 Production, utilization and improvement of grain, oilseed, and pulse crops with special emphasis on wheat, corn, sorghum, sunflower, cotton, and soybeans.
- 3343 Integrated Pest Management**  
**(Fall)**  
**3 credit hours**  
 Study of crop protection; control of pest populations; the impact of control measures on humans and the environment; the appropriate use of pesticides; and the establishment of economic-centered control policies.
- 3433 Soil Ecology**  
**(Fall)**  
**3 credit hours**  
 A study of soil ecosystems with the view of the soil as a “living” medium for plant growth. An examination of how the cultural practices of agroecosystems affect soil organisms.
- 3464 Plant and Crop Physiology**  
**(Spring, even years)**  
**4 credit hours**  
*Prerequisite:* BIOL 1504. Study of the growth and development of plants. Cellular structure and function, photosynthesis, respiration, hormones, and interaction of plants with the environment.

**3924 Range Management  
(Fall)**

**4 credit hours**

*Prerequisite:* AGRN 1214. Ecological principles and management of native grasslands. Identification of rangeland species.

**4113 Weed Science  
(Spring)**

**3 credit hours**

*Prerequisite:* AGRN 1214. Fundamentals of weed control and management including cultural, mechanical, biological and chemical practices. Herbicides and their classification and use will be emphasized.

**4213 Irrigation  
(Offered as needed)**

**3 credit hours**

*Prerequisite:* AGRN 1214 and AGRN 2124. Irrigation methods, water supply and quality, irrigation water measurement, soil moisture measurement, irrigation practices for crop plants with emphasis on soil-moisture-plant relationships.

**4234 Soil Fertility  
(Spring)**

**4 credit hours**

*Prerequisite:* AGRN 2124. Fundamental soil and plant relations that determine nutritional requirements. Characteristics, handling, and use of fertilizer materials.

**4413 Natural Resource Conservation  
(Fall)**

**3 credit hours**

Study of the proper and effective use of tillage; crop rotation and sequence; cultivation, fallow, water use, and fertilizer use to promote soil conservation.

**4571 Agronomy Seminar  
(Spring)**

**1 credit hour**

Review and discussion of current research papers, research work, and problems in crops and soils. Course may be repeated for an additional hour of credit.

**4700 Agronomy Internship**

**1-3 credit hours**

*Prerequisite:* Junior standing or above and consent of instructor. Supervised professional level agronomy job assignment with a public, private, or governmental organization.

## **ANIMAL SCIENCE (ANSI)**

**1123 Introduction to Equine Science**

**3 credit hours**

Introductory study of equine science including anatomy, physiology, origin of the species, and general species information.

**1124 Introductory Animal Science  
(Fall)**

**4 credit hours**

General and basic livestock study with emphasis on meat animals, dairy cattle, and horses.

**1132 Equine Evaluation**

**2 credit hours**

Introductory study of the physiological evaluation of horses. Emphasis placed on form, physiological confirmation and its relationship to good development.

- 2112 Introductory Live Animal Evaluation**  
(Fall)  
**2 credit hours**  
Introductory course in live animal evaluation designed to evaluate the market and breeding characteristics of beef, swine, and sheep. Use of performance data will be emphasized. The comparison of certain live animal characteristics with carcass merit will be made.
- 2124 Livestock Feeding**  
(Fall/Spring)  
**3 credit hours**  
*Prerequisite: ANSI 1124.* Study of the nutritive characteristics of feed stuffs and the use of these feeds in the formulation of rations to meet the nutrient requirements of farm livestock.
- 2182 Meat Evaluation, Classification, and Grading**  
(Fall)  
**2 credit hours**  
*Prerequisite: ANSI 1124.* Evaluation of meat and meat products. The classification of market classes and meat grading.
- 2213 Retail Meat Cutting**  
(Spring)  
**3 credit hours**  
Study of processing beef, pork, and lamb carcasses into wholesale and retail cuts. The principles of cost analysis, markup, and cost of operating a business will be emphasized.
- 2332 Livestock Fitting and Exhibition**  
**2 credit hours**  
In-depth training on selection, preparation, and exhibition of livestock for all of levels of competition. Special emphasis placed on proper use of equipment, handling, and feeding of livestock intended for competition.
- 2442 Artificial Insemination of Farm Animals**  
(Spring)  
**2 credit hours**  
General and basic livestock study with emphasis on meat animals, dairy cattle, and horses.
- 3113 Livestock Judging and Meat Animal Evaluation**  
(Fall)  
**3 credit hours**  
*Prerequisite: ANSI 1124.* Comparison of certain live animal characteristics with carcass merit and with practice in comparative livestock judging and oral reasons.
- 3133 Livestock Entomology**  
(Fall)  
**3 credit hours**  
*Prerequisite: ANSI 1124.* Economic effects of insects and related arthropods to the livestock industry. All aspects of the biology of insects including life cycle and the effects on the host animals will be discussed. Modern chemical and culture control methods will be discussed with emphasis on economic and environmental costs.
- 3234 Industry Internship**  
(Fall)  
**4 credit hours**  
*Prerequisite: Junior standing and consent of instructor.* Full-time or part-time internship for a minimum of one summer at an approved meat processing unit for on-the-job training, for a total accumulation of not less than 320 hours work experience.
- 3242 Livestock Judging and Meat Animal Evaluation**  
(Spring)  
**2 credit hours**  
*Prerequisite: ANSI 3113.* Continuation of Ansi 3113. Practice in comparative judging of horses, beef cattle, sheep, and swine in preparation for competitive livestock judging events. Emphasis will be placed on oral reasons.

- 3333 Meats**  
**(Fall/Spring)**  
**3 credit hours**  
*Prerequisite:* ANSI 1124. Slaughtering, cutting, and processing of cattle, swine, and sheep. Techniques associated with curing and smoking meat products and sausage making.
- 3523 Companion Animals**  
**3 credit hours**  
*Prerequisite:* ANSI 1124. Current concepts and management principles related to pet and companion animal species and their roles in society. Discussion of the human-animal bond, service animals, and animals used in biomedical research. The course will explore the management, anatomy, internal and external parasites, toxins, restraint, and handling, training, reproduction, nutrition, genetics, and breeding of the various animals. The ethics and current topics will be discussed.
- 3543 Animal Nutrition**  
**(Fall)**  
**3 credit hours**  
*Prerequisite:* Junior standing. Study of the chemical characteristics and physiological functions of nutrient classes; carbohydrates, proteins, fats, minerals, and vitamins. Methods of determining the nutrient content of feeds and nutrient requirements of farm animals.
- 3643 Applied Animal Nutrition**  
**(Spring)**  
**3 credit hours**  
*Prerequisite:* ANSI 3543. The application and the interpretation of the basic principles of animal nutrition. The formulation of rations and the development of feeding recommendations for livestock and poultry.
- 3644 Horse Science**  
**(Fall)**  
**4 credit hours**  
*Prerequisite:* ANSI 1124. Feeding, breeding, management, and training of horses for work and pleasure.
- 3743 Animal Diseases**  
**3 credit hours**  
*Prerequisite:* ANSI 1124. A discussion of diseases that affect livestock and their impact on economics within the livestock industry. Emphasis will be placed on diagnosis, treatment, and reporting of the diseases. Additionally, pharmaceutical and withdrawal information will be evaluated.
- 4113 Animal Anatomy and Physiology**  
**(Spring)**  
**3 credit hours**  
*Prerequisite:* ANSI 1124. Designed for animal science students as a study of the structure and function in the systems of the domestic animal body.
- 4202 Livestock Selection**  
**(Fall)**  
**2 credit hours**  
*Consent of instructor:* Advanced livestock judging and evaluation of market classes and breeds of beef cattle, sheep, swine, and horses; training in giving oral reasons.
- 4333 Livestock Breeding and Improvement**  
**(Spring)**  
**3 credit hours**  
*Prerequisite:* ANSI 1124 and junior standing. Application of genetic principles as they apply to animal breeding: heritability, selection, and mating systems.
- 4433 Animal Reproduction**  
**(Fall)**  
**3 credit hours**  
*Prerequisite:* ANSI 1124 and junior standing. Study of reproduction in farm animals with emphasis on physiological function, endocrinology, and factors affecting reproduction efficiency.

- 4463 Meat Science (Fall)**  
**3 credit hours**  
*Prerequisite:* ANSI 1124 and CHEM 1135. Physical and chemical aspects associated with structure and composition of meat. Conversion of muscle to meat and principles relative to fresh and processed meats, storage, microbiology, palatability, and nutritive values will be discussed in depth. Hormonal influence on growth, development, and final product will be covered also.
- 4543 Small Ruminant Production and Management (Spring)**  
**3 credit hours**  
*Prerequisite:* ANSI 1124 and junior standing. Designed to thoroughly evaluate management practices influencing profitability in modern sheep operations. Production practices in all phases of the industry are covered in detail. Production and management options examine input options in genetics, nutrition, physiology, and endocrinology. Production and management strategies are covered starting at conception and followed to the final product.
- 4613 Beef Production and Management (Spring)**  
**3 credit hours**  
*Prerequisite:* ANSI 1124 and ANSI 3543. Designed to thoroughly evaluate management options in the production of beef. Production and management options discussed examine input options in genetics, nutrition, physiology, and endocrinology. These inputs are discussed individually and with respect to one another. Production and management strategies are covered starting at conception and followed to the final product.
- 4643 Swine Production and Management (Spring)**  
**3 credit hours**  
*Prerequisite:* ANSI 1124 and ANSI 3543. Thorough exposure to management practices influencing profitability in modern swine operations. Production practices in all phases of the industry are covered in detail. Laboratory sessions are designed to give hands-on experience in production practices ranging from farrowing through the finishing phase.
- 4713 Principles of Feedlot Management (Spring)**  
**3 credit hours**  
*Prerequisite:* Junior standing. Basic principles which apply to the management of a feedlot. Extensive study in the areas of cattle feeding, animal health, buying and selling, supervision of personnel, and training involving organizational procedures within a feedlot.
- 4744 Technical Feedlot Operations (Spring)**  
**4 credit hours**  
*Prerequisite:* Senior standing and departmental approval. A course oriented toward developing a working knowledge in the operation of commercial feedlots in the Southern Great Plains region. The student shall be employed at one of the area feedlots on a part-time basis for a minimum of a summer term for a total accumulation of not less than 360 hours work experience time. The student will meet in conference with departmental advisers and/or feedlot managers or supervisors each week during the semester or period in which s/he is enrolled in the course.
- 4753 Advanced Meat Animal Evaluation (Offered as needed)**  
**3 credit hours**  
*Prerequisite:* Junior standing. Comprehensive study of methods in evaluating slaughter and breeding animals. Emphasis on current developments in grading and evaluating meat products.
- 4763 Advanced Ruminant Nutrition (Spring)**  
**3 credit hours**  
*Prerequisite:* ANSI 3543, BIOL 2124, and junior standing. An in-depth study of the digestive physiology of ruminant animals. Emphasis placed on gastrointestinal tract anatomy, digestive processes, rumen fermentation, and digestive kinetics and their relationship to practical ruminant nutrition practices.

**4773 Advanced Non-Ruminant Nutrition  
(Fall)**

**3 credit hours**

*Prerequisite:* ANSI 3543, BIOL 2124, and junior standing. An in-depth study of the digestive physiology of non-ruminant animals. Emphasis placed on gastrointestinal tract anatomy, digestive processes, lower tract fermentation variations, and digestive kinetics and their relationship to practical non-ruminant nutrition practices.

**4862 Animal Science Seminar  
(Spring)**

**2 credit hours**

*Prerequisite:* Senior standing. Discussion and special assignments designed to give insight into the field of animal science research.

**4902 Animal Science Problems  
(Offered as needed)**

**2 credit hours**

*Prerequisite:* Senior standing. Designed for students who desire additional information on specific subjects. A review of literature and preparation of a report which may include laboratory and/or experimental data.

**4983 Livestock Sales and Marketing  
(Spring)**

**3 credit hours**

An in depth view of livestock marketing practices and procedures. Focus will be maintained on aspects of marketing animals and their products utilizing traditional methods as well as methods of the future. Emphasis will be placed on communication, education, and ethical livestock promotion.

**ART (ART) +**

**1123 Photography  
(Fall)**

**3 credit hours**

Basic principles of photography: camera operation, black and white images, developing film, printing negatives, and compiling a portfolio. Student must provide a 35mm camera, film, and printing paper.

**1433 Fundamentals of Art  
(Fall)**

**3 credit hours**

Developing skills and discipline while imparting a sense of adventure for exploring new materials, techniques, and thoughts. The creative work will involve principles of design; aims of organization; and plastic elements of color, line, texture, space, and form using a variety of media.

**1533 Art Appreciation \*\*  
(Fall)**

**3 credit hours**

Comprehensive view of the visual arts—painting, sculpture, and architecture—concentrating on the late 19th century to the present. This course introduces students to motivations, intentions, and processes of artists with an approach to the visual arts that prepare them to continue their own visual educations.

**2113 Drawing I  
(Fall)**

**3 credit hours**

An introduction to representational drawing using a variety of media, techniques, and subjects. Analysis of form and spatial structure through the use of proportion, perspective, line, value, and shape.

**2123 Drawing II  
(Spring)**

**3 credit hours**

*Prerequisite:* ART 2113. Individual problems in freehand drawing using a variety of subjects and media. Designed for students who have completed Art 2113 and/or have enough experience in drawing to plan and execute their drawings primarily by themselves, but under the direction of the instructor. Color media is used.

**2243 Design I - 2D Design  
(Fall)**

**3 credit hours**

*Prerequisites:* ART 1433 and ART 2853 or consent of instructor. A dynamic approach to two-dimensional design. Students learn the principles of color manipulation to stimulate further inquiry into design.

**2253 Design II - 3D Design  
(Spring)**

**3 credit hours**

Continuation of ART 2243 - Design I. Dynamic approach to 3D design with emphasis on spatial qualities of form.



- 2323 Art Workshop**  
**3 credit hours**  
 Workshop presentations focusing on various media and techniques including painting, drawing, printmaking, sculpture, ceramics, graphic design, weaving, and textile design.
- 2333 Art Marketing I**  
**3 credit hours**  
 The business of art dealing in the following areas: portfolio and slide creation, selling, attaining art publishers, creating public relations materials, compiling mailing lists, profit and loss, etc.
- 2533 Ceramics I**  
**3 credit hours**  
 Basic course in the fundamentals of pottery, including various methods of building the ware, decorating and/or glazing, and stacking the kiln.
- 2543 Ceramics II**  
**3 credit hours**  
*Prerequisite: ART 2533.* Designing and executing advanced projects in clay. Time equally divided between hand building and the potter's wheel. Loading and firing the kiln.
- 2633 Photography II**  
 Advanced techniques in the production of mixed media photography. Lighting and other techniques will be used in studio work. Introduction to the learning processes of macro photography.
- 2643 Photojournalism**  
**3 credit hours**  
 Introduces students to all areas of photojournalism and exposes them to aspects of writing articles for newspapers, periodicals, magazines, and books. Students will be required to take photographs covering the story along with writing, including sports, human interest, documentaries, interviews, etc. Students will critique their work along with other students in the class.
- 2853 Painting I**  
**3 credit hours**  
 A beginning course exploring the potential of oil or acrylic with emphasis on color and composition.
- 2933 Painting II**  
**3 credit hours**  
*Prerequisite: ART 2853.* Continuation of Art 2853 with emphasis on aesthetic and individual exploration.
- 3153 Figure Drawing I**  
**3 credit hours**  
*Prerequisite: ART 2113 or permission of instructor.* Constructed to provide rigorous training in gesture, anatomy, and figure drafting. Drawing the human figure acts as an introduction to understanding visual relationships. Upon completion of the semester, the student will be able to analyze the human form and see it as part of the greater whole.
- 3163 Figure Drawing II**  
**3 credit hours**  
*Prerequisite: ART 3153.* Formal aspects are expanded to include space, time, and movement. The student employs a variety of basic materials and techniques, both traditional and experimental.
- 3303 Art History I \*\***  
**3 credit hours**  
 Examines art from prehistoric times to the late Renaissance at the end of the sixteenth century. Significant artists and movements carefully selected from the fields of architecture, painting, sculpture, and other visual arts are studied against the political, social, and scientific backgrounds and artistic traditions of the times.
- 3313 3-D Modeling I**  
**3 credit hours**  
**(Fall)**  
*Prerequisites: ART 1433, ART 2443, CIS 2123, or consent of instructor.* Introduction to 3-D character modeling for use in computer animation. Course may be repeated with different software emphasis.

**3333 Sculpture I**  
**3 credit hours**

*Prerequisite:* ART 2533 or consent of instructor. Basic principles of the three-dimensional form. Sculptures will be built using the techniques and materials of ceramics. The techniques taught will be modeling, slab, and coil construction. Fundamentals of armature building and instruction for casting completed projects.

**3343 Sculpture II**  
**3 credit hours**

*Prerequisite:* ART 3333. Designing and executing advanced sculptural projects. Individual projects in direct plaster, bas-relief, and wax. Work with rubber models and modeling in wax.

**3423 Painting III**  
**3 credit hours**

*Prerequisite:* ART 2933. A continuation of ART 2933 with emphasis on the student developing style as well as refining techniques with an oil painting focus.

**3543 Painting IV**  
**3 credit hours**

A continuation of Painting III developing the students' skills in oil painting. The course will continue to stress form, content, visual appreciation, and individual expression.

**3553 Graphic Design**  
**3 credit hours**

Introduction to visual communication through graphic design. Problems in design, color, type, concept, history, with emphasis on clear visual thinking, craftsmanship, and execution.

**3563 Ceramics III**  
**3 credit hours**

*Prerequisite:* ART 2543. Functional stoneware pottery made on the potter's wheel. In addition, research on different types of ceramic glazes.

**3613 Jewelry I**  
**3 credit hours**

Develops students' skills in metal forming, casting, and fabrication. Emphasis will be on artistic design and craftsmanship.

**3633 Digital Photography**  
**3 credit hours**

Basic use of a digital camera and the use of each operational mode of a digital camera including auto program, shutter, aperture, manual modes, different uses of white balance, settings creating different effects, and ISO settings. There will also be time spent on the reading of the histogram on camera, and lens usage for different photographs. Student must provide his or her own camera equipment.

**3643 Outdoor Photography**  
**3 credit hours**

Introduces the student to the many facets of photographing outdoors. Many techniques as well as use of equipment are discussed. Field trips are incorporated to allow for artistic photo opportunities.

**3663 Printmaking**  
**3 credit hours**

Introduction to basic printmaking techniques. Emphasis on proper use of tools and equipment. Basic exploration of relief, planographic, and intaglio processes.

**3673 Pastel I**  
**3 credit hours**

*Prerequisite:* ART 2113 and ART 2123. Students will learn about various pastels and papers along with the five-step pastel procedure. Students will learn color theory and critique their work while in progress as well as designing and planning their work.

**3683 Airbrush Illustration****3 credit hours**

Course applies the principles and methods of airbrush to actual situations with emphasis on the refinement of individual visual solutions and portfolio presentations. Students will be able to illustrate graphically and discuss design and technical issues in rough to finished art projects by the completion of this course. Students will also demonstrate proficiency and a breadth of expression in the use of the airbrush as well as demonstrated self-evaluation through revision and refinement of artwork for the portfolio presentation process.

**3713 Advanced Jewelry - Silver Smithing****3 credit hours**

*Prerequisite: ART 3613.* Explores the techniques of fabrication such as cutting, joining, riveting, soldering, and sculpting of silver.

**3883 Pastel II****3 credit hours**

A continuation of *ART 3673 - Pastel I*. Students will decide on a direction of study and style as well as write a semester plan and submit to the instructor.

**4000 Problems in Art****1-3 credit hours**

*Prerequisite: Consent of instructor.* Problems and/or independent study course in any specific field of art.

**4013 Watercolor Painting I****3 credit hours**

Study of watercolor painting techniques.

**4303 Art History II\*\*****3 credit hours**

Examines the major movements of Western art from the Baroque period of the seventeenth century to the end of the twentieth century.

**4323 History of Modern Art \*\*****3 credit hours**

Surveys the major developments in European and American art from the 1800's to the present.

**4333 History of Italian Renaissance Art \*\***

Focuses on art in the Italian Renaissance period from 1200 to 1594; deals with artists and their works that involve painting, sculpture, and architecture. The student will learn to recognize styles, formal characteristics and techniques used by artists of this time period and will analyze and comment on the works of art using the approach of an art critic.

**4343 History of Medieval Art \*\*****3 credit hours**

Focuses on art in the Medieval period with an overview of painting, sculpture, and architecture in Italy, Byzantium, Germany, and France from the 4th to the 14th centuries--including Early Christian, Byzantine, Pre-Romanesque, Hiberno-Saxon, Carolingian, Ottonian, Romanesque, and Gothic art. The student will learn to recognize styles, formal characteristics, and techniques used by the artists of this time period and analyze and comment on the works of art using the approach of an art critic.

**4421 Senior Exhibit****1 credit hour**

Students will have a public showing of their works along with a video presentation.

**4423 Watercolor Painting II****3 credit hours**

*Prerequisite:* ART 4013 or consent of instructor. Individual problems in watercolor painting. Designed for students who have completed Art 4013 and/or have enough experience in watercolor painting to plan and execute their paintings primarily by themselves, but under the direction of the instructor.

**4433 Sculpture III - Metalsmithing****3 credit hours**

*Prerequisite:* ART 3333 and ART 3343. Designed for the advancement of sculptural foundations relating to metal. Students will create objects and explore solutions that reflect the three paths in contemporary metalsmithing, conceptual, formal, and narrative. Materials used include but are not limited to ferrous materials, stainless steel, tin aluminum, and other materials as allowed. Course explores the basics of torch and plasma cutting as well as brazing, arc welding, mig/tig welding, and soldering.

**4443 Sculpture IV****3 credit hours**

*Prerequisite:* ART 4433. Students will work in the reductive process using plaster and stone. References will be made to stone sculptures from around the world. Students will design and execute advanced sculpture projects using plaster and stone.

**4463 Senior Exhibit****3 credit hours**

Capstone course involving exploration in specific fields with development of a project, paper, and exhibit.

**4473 Painting V - Explorative Techniques****3 credit hours**

Exploration of painting techniques, advanced art criticism, and development of a personal style. Will develop painting skills, techniques, and aesthetic sensibilities related to artistic expression in all paint media. Emphasis will be placed on color and composition, understanding of good painting techniques, capability and paint handling, and guidance toward personal direction in painting.

**4483 Painting VI - Explorative Techniques****3 credit hours**

An advanced course in the exploration of painting techniques, advanced art criticism, and development of a personal style.

**4503 Aesthetics and Advanced Art Criticism \*\*****3 credit hours**

Discussion of critical literature and issues as well as aesthetic philosophies of art. Relates philosophies of a myriad of well known philosophers to classical and contemporary art. The relationship is noted through class discussions and forms in which the student is required to attain certain aesthetic rationale in the criticism of his/her own art as well as apply knowledge to the works of classical and contemporary artists.

**4523 Art Marketing II****3 credit hours**

A continuation of ART 2333.

**4543 Studio Photography****3 credit hours**

Photography based on portrait, still life, and commercial photography using digital and film techniques. Covers the use of classic equipment as well as the use of modern technology.

**4553 Sports Photography****3 credit hours**

Introduces the student to the realm of sports photography and the many facets of photography techniques associated with capturing the moving image. Motion, lighting, shape, planning, and the design principles of photography are covered.

**3563 Ceramics IV****3 credit hours**

*Prerequisite:* ART 3563. Continuation of ART 2553. Functional stoneware pottery made on the potter's wheel with emphasis on surface design, slips, englobes, glazes, over-glazes, and luster used as a painting medium on pottery forms. Research will involve creating a personal ceramic studio.

**4573 Ceramics V - Explorative Techniques****3 credit hours**

*Prerequisite:* ART 2533, ART 2543, ART 3353, ART 4563, or permission of instructor. Course surveys hand-building techniques from around the world in ceramics. Traditional methods such as coil and slab will be used along with original extruded forms and exploration into other forming methods.

**4583 Ceramics VI - Explorative Techniques****3 credit hours**

*Prerequisite:* ART 4573. A continuation of ceramics V with advanced exploration of form, finish, glazing, firing, and display.

**AVIATION EDUCATION (AVED)****1142 Theory of Flight****2 credit hours**

Ground school course including civil air regulations, theory of flight, power plants, service of aircraft, and the principles of theory of flight, power plants, service of aircraft, and the principles of navigation and meteorology. Fulfills the ground school training needed for private pilot's certificate.

**1252 Flight Training****2 credit hours**

*Prerequisite:* AVED 1142 or concurrent enrollment in AVED 1142. Flight training course which will follow F.A.A. regulations. Includes familiarization, orientation, demonstration, practice of maneuvers, dual, solo cross country, and all types of flying to meet the requirements of the approved standardized F.A.A. flight curriculum. Training will be conducted at Guymon Airport with certified F.A.A. flight instructors in charge.

**BIOLOGY (BIOL)****1123 Nutrition****Scheduled through the Nursing Department****3 credit hours**

Consideration of basic nutrition related to food and good health. Nutritional issues and problems in the present socio-economic and cultural environment.

**1212 The Science of Evolution****(Spring—even years)****2 credit hours**

Introductory course into evolution and evolutionary theory. Will examine the basic theories concerning evolution and debunk the myths associated with many other theories.

**+1304 Principles of Biology I****(Fall/Spring)****4 credit hours**

An introduction to the basic concepts of biology including cell structure and function, chemical basis of life, energy production, the cellular basis of reproduction, basic genetics, patterns of inheritance, and evolution of life.

**+1404 Botany****4 credit hours**

Structure and basic processes in plants. Their relation to factors in the environment, reproduction, heredity and variation in plants. A survey of the plant kingdom will be covered. Lecture, laboratory and fieldwork.

**+1504 Principles of Biology II  
(Spring)****4 credit hours**

An integrated lecture and laboratory course that covers the most important concepts of organismal biology including plant and animal morphology and physiology; principles of evolution, organismal diversity and phylogeny; population biology, population genetics, and organism behavior. This course is a foundation and prerequisite for all other biology courses except Biology 1304. Laboratory exercises include application of the scientific method and microscopy and experiments in Hardy-Weinberg equilibrium, organism classification, organism morphology and physiology, systematics, cladistics, and microbiology.

**+1604 Zoology****4 credit hours**

An introduction to animal biology. Major concepts in ecology, evolution, and behavior of the major animal phyla will be covered. A survey of the major organ systems common to all animals will also be covered. Lecture and laboratory.

**2001 Freshman Research****1 credit hour**

Course gives students interested in graduate school the opportunity to gain hands-on experience in setting up and conducting individual, original research projects under the guidance of faculty.

**+2065 Comparative Vertebrate Anatomy  
(Spring odd years)****5 credit hours**

*Prerequisite: BIOL 1504.* Comparison of the anatomy of selected vertebrate types. Vertebrate dissection required.

**+2104 Human Anatomy  
(Fall)****4 credit hours**

*Prerequisite: BIOL 1504 and CHEM 1135.* Systematic study of the basic structure of the human body. Laboratory examines basic human and mammalian structures. Mammalian dissection required.

**+2124 Microbiology  
(Spring/Summer)****4 credit hours**

*Prerequisite: BIOL 1504 and CHEM 1135.* Basic study of microorganisms and their influences on mankind in respect to water, soil, food production, disease, and immunity. Laboratory instruction deals primarily with basic techniques in handling and culturing microbes.

**+2205 Human Physiology  
(Spring)****5 credit hours**

*Prerequisite: BIOL 1504 and CHEM 1135.* Anatomy and physiological functions of the organ systems of the animal body; how the different systems function together with a study of the basic structure of the human body.

**+2213 Comparative Plant Morphology  
(Offered as needed)****3 credit hours**

*Prerequisite: BIOL 1504.* Survey of the plant kingdom, including the study of life cycles and structural and functional anatomy of representation forms from each major group of plants.

**+3013 Medical Terminology  
(Fall/Spring)****3 credit hours**

Study of definition and use of medical terms common to many health-related disciplines.

**+3024 Genetics  
(Fall)****4 credit hours**

*Prerequisite: BIOL 1304 and BIOL 1504.* Integrated lecture and laboratory course that covers Mendelian genetics and the chemical/molecular basis of inheritance including developmental, population, and human genetics. Laboratory experiments will exemplify concepts and include fruit fly crosses, exercises on mitosis and meiosis, probability and statistics, human genetics, population genetics, DNA isolation and gel electrophoresis, and computer simulations of genetics problems.

- +3054 Entomology**  
**(Fall even years)**  
**4 credit hours**  
*Prerequisite:* BIOL 1504. Structure, classification, and environmental relationships of insects. Collection required.
- +3104 Ornithology**  
**(Spring—odd years)**  
**4 credit hours**  
*Prerequisites:* BIOL 1304, BIOL 1504 and BIOL 2065. Integrated lecture and laboratory course that teaches students how avian taxa differ from other vertebrates. Topics will include phylogeny, systematics, and classification of extant taxa; identification of North American taxa; physiological and anatomical adaptations for flight; behavioral adaptations including migration, song, mating displays, and territorial deportment, and appreciation of avian fauna.
- +3124 Human Anatomy - Non Majors**  
**(Fall—even years)**  
**4 credit hours**  
*Prerequisite:* BIOL 1304. Integrated lecture and laboratory that covers the architecture of the human body and how it functions. Topics covered include the major systems of the human body.
- +3133 Introduction to Biotechnology**  
**3 credit hours**  
 Study of biotech genetic alterations to agronomic crops that have led to enhanced production, improved food quality, reduced pesticide use, and controversy over health and environmental affects.
- +3204 Herpetology**  
**(Fall—even years)**  
**4 credit hours**  
*Prerequisites:* BIOL 1304, BIOL 1504, and BIOL 2065. Integrated lecture and laboratory teaching how amphibian and reptile taxa differ from other vertebrates. Topics include phylogeny, systematics, and classification of extant taxa, identification of North American taxa, physiological and anatomical adaptations for terrestrial and aquatic life, behavioral adaptations including estivation, vocalization, mating displays, territorial deportment, and appreciation of native fauna.
- +3224 Animal Parasitology**  
**(Spring)**  
**4 credit hours**  
*Prerequisite:* BIOL 1504. Life histories, host relationships, structure, and distribution of animal parasites. Collection required.
- +3333 Meats**  
**3 credit hours**  
**(Fall/Spring)**  
*Prerequisite:* ANSI 1124. Slaughtering, cutting, and processing of cattle, swine, and sheep. Techniques associated with curing and smoking meat products and sausage making.
- +3343 Integrated Pest Management**  
**(Fall)**  
**3 credit hours**  
 Study of crop protection; control of pest populations; the impact of control measures on humans and the environment; the appropriate use of pesticides; and the establishment of economic-centered control policies.
- +3344 Mycology and Plant Pathology**  
**(Fall—even years)**  
**4 credit hours**  
*Prerequisite:* BIOL 1504. Introduction to ontogeny, structure, and relationships of slime molds, true fungi, and bacteria/viruses. Plant pathogens in each group will be emphasized.
- +3422 Biological Science Concepts in Elementary Education**  
**(May Interterm)**  
**2 credit hours**  
 A basic background in chemistry, biology, and class/lab safety with group demonstrations and activities designed to motivate elementary students to learn science.

- +3464 Plant Physiology**  
(Offered as needed or odd years)  
**4 credit hours**  
*Prerequisite:* BIOL 1504 and a course in organic chemistry. A survey of the physiological processes, activities, and functions of plants.
- +3504 Immunology**  
(Fall—odd years)  
**4 credit hours**  
*Prerequisite:* Eight hours of biology or consent of instructor. The study of fundamental principles of immunity and hypersensitivity as well as the functional expression of the immune system.
- +3704 General Ecology**  
(Spring)  
**4 credit hours**  
*Prerequisite:* BIOL 1504 and BIOL 3813. Interrelationships of organisms and their environments. Field trips and laboratory reports required.
- 3813 Biological Statistics**  
(Spring)  
**3 credit hours**  
*Prerequisite:* MATH 1513. Methods of collecting, analyzing, presenting, and interpreting numerical data for biological applications. Emphasizing descriptive, inferential statistics and interpretation of findings.
- 3924 Range Management**  
(Spring)  
**4 credit hours**  
*Prerequisite:* AGRN 1214. Utilization and establishment of tame and native range. Application of plant and animal ecological principles to management systems. Field trips required.
- +4000 Problems in Biology**  
(Offered as needed)  
**1-4 credit hours**  
*Prerequisite:* BIOL 1504 and eight additional hours of biology. May be repeated in different phases of biology. Execution and investigation of elementary but fundamental and original problems in biology under supervision. Credit varies. Written report in a form suitable for publication must be submitted at the conclusion of the problem.
- +4013 Pathophysiology**  
(Spring)  
**3 credit hours**  
*Prerequisite:* Eight hours of chemistry/biology. Designed to examine the outcomes of pathological processes at cellular and systemic levels; focuses on etiological, symptomatic, and pathological aspects of major physiological alternations in humans.
- +4014 Molecular and Cellular Biology**  
(Fall)  
**4 credit hours**  
*Prerequisite:* BIOL 1504. Structure and function of cells and subcellular components, synthesis and regulation of DNA, RNA, and protein, cell cycles, chromosome structure, and cell differentiation. Lab includes studies of cellular and chromosomal structure and basic molecular biology techniques.
- +4044 Developmental Biology**  
(Spring odd years)  
**4 credit hours**  
*Prerequisites:* BIOL 1304, BIOL 1504, BIOL 3024, and BIOL 4004. Integrated lecture and lab course that provides the most current knowledge needed to describe morphology of development in some model organisms and, where possible, to explain this in terms of genetic, cellular, and molecular mechanisms. The student will learn that many developmental processes are triggered by three phenomena: changes in gene expression, cell-to-cell interactions, and cell-extracellular matrix interactions. This course will also introduce the student to the laboratory investigation of developmental process in invertebrates and vertebrates.
- 4100 Selected Topics in Biology**  
**1-4 credit hours**  
*Prerequisite:* 8 hours of biology courses. Course gives students the opportunity to pursue individual interest within the field of biology. May be repeated for a maximum of 6 credit hours with different topics.



- 4102 Lab Management**  
**2 credit hours**  
 Focuses on health and safety in laboratory programs and addresses key topics including OSHA standards. Students will participate in setting up laboratories, monitoring safety, setting up inventory control and monitoring, and discussions on changes in OSHA standards and how to implement changes.
- 4113 Weed Science**  
**(Spring)**  
**3 credit hours**  
*Prerequisite: AGRN 1213 and CHEM 1135.* Growth, dissemination, economic importance, and distribution of weeds. Physiological, ecological, cultural, and chemical methods of weed control. Chemistry and application of herbicides.
- +4243 Evolutionary Biology**  
**(Spring—even years)**  
**3 credit hours**  
*Prerequisites: BIOL 1304, BIOL 1504 and BIOL 3024.* In-depth information on the theories of sexual selection, speciation, social behavior, biodiversity, natural selection and adaptation, molecular and population evolution and coevolution.
- +4333 Livestock Breeding and Improvement**  
**(Spring)**  
**3 credit hours**  
*Prerequisite: ANSI 1124 and junior standing.* Application of genetic principles as they apply to animal breeding: heritability, selection, and mating systems.
- +4413 Conservation of Biological Resources**  
**(Fall—odd years)**  
**3 credit hours**  
*Prerequisite: Four hours of biology.* A study of the biological resources of the earth and methods for their use, preservation, conservation, and replacement. Discussion of current problems in conservation. Cross referenced with Sced 3413.
- +4433 Animal Reproduction**  
**(Fall)**  
**3 credit hours**  
*Prerequisite: ANSI 1124 and junior standing.* Study of reproduction in farm animals with emphasis on physiological function, endocrinology, and factors affecting reproduction efficiency.
- +4455 Microtechnique Histology**  
**(Fall—odd years)**  
**5 credit hours**  
*Prerequisite: BIOL 1504 and junior standing.* Introduction to practical laboratory methods of preparing plant and animal tissue for microscopic examination; histological study of vertebrate cellular structure of tissues and organs.
- +4463 Meat Science**  
**3 credit hours**  
**(Fall)**  
*Prerequisite: ANSI 1124 and CHEM 1135.* Physical and chemical aspects associated with structure and composition of meat. Conversion of muscle to meat and principles relative to fresh and processed meats, storage, microbiology, palatability, and nutritive values will be discussed in depth. Hormonal influence on growth, development, and final product will be covered also.
- +4502 Senior Thesis**  
**(Fall)**  
**2 credit hours**  
*Prerequisites: BIOL 1304, BIOL 1504, BIOL 3024, and BIOL 3704.* Laboratory-based course providing the senior biology major and minor an opportunity to design, perform, and analyze the data collected and record the outcome and implications of an independent experiment.

**BUSINESS ADMINISTRATION (BADM)****1013 Introduction to Business and Entrepreneurship****3 credit hours**

For non-business majors, first-year business majors, and business education majors. Not available for credit to business administration, accounting, or agribusiness majors with over 60 semester hours. An overview of business, management and organization of human resources, production and productivity, marketing, accounting and finance, information management and controls, and business career opportunities.

**2000 Independent Studies in Business****Administration****(Offered as needed)****1-3 credit hours**

Used for requesting credit through departmental exams, military experience other than basic training, and all other types of experiential learning.

**2013 Personal Finance****(Fall)****3 credit hours**

Family financial planning for the entire family life cycle; budget planning and control; providing for education, housing, transportation, insurance, investments, and retirement.

**2023 Professional Skills for the Workplace****3 credit hours**

For business and non-business majors. The enhancement or development of soft skills, including but not limited to interpersonal relationships, self-management strategies, teamwork, creative problem-solving, decision making, listening, and speaking. Course is project-driven and team oriented. This course will provide tools to evaluate one's current skillset and techniques for building upon those existing skills to give students from across OPSU's academic disciplines a competitive advantage in the job search process and to help develop these students into competent contributors to the global workforce.

**+2113 Principles of Macroeconomics****(Fall/Spring/Summer)****3 credit hours**

A study of the economic system as a whole, featuring all major schools of economic thought, the forces determining the level of employment output and price, relating these forces to fiscal and monetary policy, and aggregate supply and demand.

**+2123 Principles of Microeconomics****(Fall/Spring/Summer)****3 credit hours**

*Prerequisite:* *BADM/ECON 2113.* A study of the behavior of individual industries, firms, and households within the economic system, analyzing the operation of markets for goods, services, and factors of production; the behavior of firms and industries in different types of competition and income distribution of final goods and services, the function of market factors on capital, land, and international trade.

**+3023 Technical Writing****(Fall)****3 credit hours**

*Prerequisite:* *ENGL 1213.* In-depth study of technical writing as applicable to the forms of writing required in careers and graduate schools. Applied writing in each student's area of specialization.

**3073 Principles of Insurance****3 credit hours**

*Prerequisite:* *Junior standing.* Broad principles and terminology common to insurance types; fire, casualty, life, and property insurance from the customer's point of view. Will include insurance organizations, analysis of risk, probability, and role of actuaries.

**+3103 Consumer Economics****(Spring)****3 credit hours**

*Prerequisite:* *BADM 2113.* The interrelationships of the consumer with public and private providers of goods and services, including consumer credit, protective agencies, consumer services, principles of consumer choice, and the fiscal and political systems.

- 3123 Business Law I**  
**(Fall/Spring)**  
**3 credit hours**  
 The development of the law of business. Special attention to the law governing contracts, personal property, agency, negotiable instruments, bailment, transportation, and employer-employee relationship.
- +3173 Business Communications**  
**(Fall/Spring)**  
**3 credit hours**  
*Prerequisite: ENGL 1213.* The study and applications of the concepts of inter- and intra-organizational communications—oral and written. Includes an examination of listening skills, letters, memos, résumés, chairing meetings, and job search strategies. Cross-listed as COMM 3173.
- 3323 Business Law II**  
**(Fall/Spring)**  
**3 credit hours**  
 Business essentials of guaranty and suretyship, sales, partnerships, corporations, real property, mortgages, leases, trusts and estates, bankruptcy, Uniform Commercial Code, commercial paper, and secured transactions.
- 3333 Industrial Psychology**  
**(Spring)**  
**3 credit hours**  
 Application of psychological facts and principles of creating the optimum work environment, work schedule, and work procedures; role of behavioral factors in the design and operation of machines and equipment. Cross-listed as PSYC 3333.
- 3373 Real Estate Principles**  
**(Spring)**  
**3 credit hours**  
*Prerequisite: Junior standing or consent of instructor.* Primary emphasis placed upon contracts, home ownership, brokerage, deeds, and selling. Includes Oklahoma license laws, rules, and regulations. Although this course covers the content required by the Oklahoma Real Estate Commission for pre-licensing, it must be coupled with Badm 3473 to provide the required 90 clock hours of instruction required to set for the State licensure examination.
- 3473 Real Estate Practices**  
**Offered by arrangement as needed.**  
**3 credit hours**  
*Prerequisite: BADM 3373.* This course is a continuation of Real Estate Principles with an emphasis on practical and operational problems of the broker. In addition to more in-depth coverage of the topics from Real Estate Principles, this course will look at listings, advertising, sales training, property valuation, property management, office management, and closing.
- 3573 Money and Banking**  
**(Spring)**  
**3 credit hours**  
*Prerequisite: BADM/ECON 2113, AG 2343, ECON 2123, or consent of instructor.* Modern currency, banking, and credit and their places in present financial organization.
- +3613 Statistics**  
**(Fall/Spring/Summer)**  
**3 credit hours**  
*Prerequisite: MATH 1513.* Methods of collecting, analyzing, presenting, and interpreting numerical data for a variety of applications. General application of statistical principles is emphasized.
- 3703 Small Group Discussion**  
**3 credit hours**  
*Prerequisite: COMM 1113.* Leadership training through the study of oral communication and decision-making. Relationship of oral communication and discussion techniques to problem-solving, decision-making, conflict resolution, and patterns of leadership in small groups. Cross-listed as Mgmt and Comm 3703.

**4000 Independent Studies in Business  
Administration  
(Offered as needed)  
1-3 credit hours**

*Prerequisite: Junior standing and consent of instructor.* This course is designed to give the student the opportunity to pursue areas of individual interest with emphasis in the area of business administration. The course may be repeated with a change in the areas of interest for a maximum of three semester hours.

**4403 Labor Relations  
3 credit hours**

*Junior class standing and Instructor Approval.* Focuses on the study of the American Labor Movement in general, notable individuals from that movement, and the dissection and the understanding of the rationale in the study of collectively bargained agreements (contracts).

**4603 Business Ethics  
(Fall/Spring/  
3 credit hours**

*Prerequisite: Junior standing or above.* Using a managerial framework, this course explains how ethics can be integrated into strategic business decisions. This framework provides an overview of the concepts, processes, and best practices associated with successful business ethics programs. This approach prepares students for ethical dilemmas they will face in their business careers.

**4700 Business Administration Internship  
(Summer)  
1-3 credit hours**

*Prerequisite: Junior standing at least and consent of the instructor.* Supervised professional-level business assignment with public, private, or governmental organization. May be repeated for a total of six hours of credit.

## **BUSINESS FINANCE (FIN)**

**3573 Money and Banking  
(Spring)  
3 credit hours**

*Prerequisite: BADM/ECON 2113.* Modern currency, banking, and credit and their places in present financial organization.

**3773 Business Finance I  
3 credit hours  
(Fall/Spring)**

*Prerequisite: ACCT 2103, ACCT 2203, BADM/ECON 2113, and MATH 1513.* An introduction to the principles of corporate financial management. Primary emphasis is on business taxation, financial statement analysis, source of capital, risk analysis, time value of money, security valuation, and costs of capital.

**3783 Business Finance II  
3 credit hours  
(Spring)**

*Prerequisite: FIN 3773.* A continuation of FIN 3773 with emphasis on cost of capital, capital budgeting, working capital management, capital structure theory, financial planning and forecasting, working capital management, asset mix, and special topics in financial management.

**4000 Special Topics in Finance  
(Offered as Needed)  
1-3 credit hours**

*Prerequisite: Consent of instructor.* Specific advanced concepts in finance theory and/or practice. May be repeated for credit with different topic.

**4063 Commercial Banking  
(Spring)  
3 credit hours**

*Prerequisite: FIN 3783 or FIN 3773.* Study of the financial management of commercial banks and other selected institutions, emphasizing their role in the money and capital markets through funds acquisitions, investment, and credit extension.

- 4083 Investments**  
**(Spring)**  
**3 credit hours**  
*Prerequisite: FIN 3773 or FIN 3783.* A study of investment, securities, sources of investment information, the security markets, and elements of analysis.
- 4603 Financial Statement Analysis**  
**3 credit hours**  
 Advanced course on methods of analyzing financial position, trends, and prospects of a company using the available financial statements.

## **BUSINESS MANAGEMENT (MGMT)**

- +3703 Small Group Discussion**  
**(Fall)**  
**3 credit hours**  
*Prerequisite: COMM 1113.* Leadership training through the study of oral communication and decision-making. The relationship of oral communication and discussion techniques to problem-solving, decision-making, conflict resolution, and patterns of leadership in small groups.
- 3813 Principles of Management**  
**(Fall/Spring)**  
**3 credit hours**  
 An introductory management course dealing with management theory and the fundamental principles of management such as planning, organizing, leading, and controlling the basic process.
- 4000 Special Topics in Management**  
**1-3 credit hours**  
*Prerequisites: MGMT 3813 or consent of instructor.* This course is designed to cover specific advanced concepts in marketing theory and/or practice. May be repeated for credit.
- 4013 Organizational Behavior**  
**(Fall)**  
**3 credit hours**  
*Prerequisite: MGMT 3813.* Behavioral science concepts such as leadership, motivation, personality, decision-making, interpersonal and intergroup behavior, that are relevant to the study of organizational and managerial behavior. Provides an understanding of the components and dynamics of organizational behavior essential to any manager.
- 4133 Leadership**  
**(Fall)**  
**3 credit hours**  
*Prerequisite: MGMT 3813.* Designed to expose students to a variety of leadership perspectives and practices to enhance individual development and effectiveness as a leader. Provides a comprehensive account of historical foundations, contemporary theories and models, and emerging perspectives of leadership. An integrative view of leadership is used to illustrate how various research methodologies are used for understanding and assessing the concept of leadership.
- 4703 Organizational Communication**  
**(Spring)**  
**3 credit hours**  
*Prerequisite: COMM 1113.* Emphasis upon communication behaviors which occur within organizational structures, including group processes, interviewing techniques, listening behaviors, and communication phenomena within business, professional, and community organizations. Cross-listed as COMM and BADM 3703.
- 4813 Office Management**  
**(Fall)**  
**3 credit hours**  
 A study of layout, business forms, reports, budgets, organizational structures, human relations, and performance standards to improve office procedures. Methods, systems (including filing: alphabet, subject, geographic, and special systems), and procedures to control waste in the use of time, effort, and equipment in business offices.

**4873 Human Resource Management  
(Spring)  
3 credit hours**

*Prerequisite:* MGMT 3813. An introduction to the development, application, and evaluation of policies, procedures, and programs for the recruitment, selection, development, and utilization of human resources in an organization.

**4893 Small Business Management  
(Fall)  
3 credit hours**

*Prerequisite:* Senior standing and all of the common business core. Problems faced in the creation and early growth stages of business enterprises. Accounting, finance, opportunity recognition, legal constraints, management, marketing, and taxation and procedural problems. To solidify the concepts covered, students are asked to create a plan for implementation and operation of a new business venture. This is a capstone course.

**4983 Strategic Management and Business Policy  
(Spring)  
3 credit hours**

*Prerequisite:* Senior standing and all of the common business core. A capstone course for senior-level students designed to integrate strategic and administrative decision-making with emphasis on analyzing business problems, formulating policies, and implementing plans for action. Comprehensive cases provide the opportunity to study the proper interrelationship among production, finance, marketing, and the many other functions involved in managing a business.

## **BUSINESS MARKETING (MKTG)**

**3443 Consumer Behavior  
(Fall)**

**3 credit hours**

*Prerequisite:* MKTG 3913. Provides students with a broad analysis of the social, cultural, economic, and psychological factors that influence the decision-making process of consumers. Equips students with the basic knowledge about issues and dimensions of consumer behavior and develops their ability to apply behavioral theories and research techniques to tackle marketing problems. More specifically, the course familiarizes students with basic concepts and procedures for investigating consumers' routine and complex buying habits, pre-purchase decision processes, and post-purchase evaluation processes in addition to exploring market structure consumer behavior, purchase strategy and tactics, determinants, and patterns of customer behavior.

**3913 Principles of Marketing  
(Fall/Spring)  
3 credit hours**

An introductory course utilizing a managerial approach to the study and problems of marketing with emphasis on marketing strategy and development of marketing mix.

**3923 Professional Selling  
(Fall)**

**3 credit hours**

*Prerequisite:* MKTG 3913. Modern salesperson; traits required for success in the field; the selling process; the functions of sales management.

**3943 Sales Promotion  
3 credit hours**

Explores the use of sales promotion as a part of the marketing mix. General concepts relating to sales promotion as well as many of the most common sales promotion tools will be discussed. Specific attention will be given to which promotional objectives are appropriate for each promotional tool and when each promotional tool should and should not be used. Integration of sales promotion with the marketing mix is integrated throughout the course.

- 3973 Advertising (Spring)**  
**3 credit hours**  
*Prerequisite: MKTG 3913.* Modern advertising principles and practices. Functions of advertising, ethics, fields, selection of media, and copy and layout. Advertising from the viewpoint of both seller and consumer.
- 4000 Special Topics in Marketing**  
**1-3 credit hours**  
*Prerequisites: MKTG 3913 or consent of instructor.* This course is designed to cover specific advanced concepts in marketing theory and/or practice. May be repeated for credit.
- 4023 Retailing (Fall)**  
**3 credit hours**  
*Prerequisite: MKTG 3913.* Principles and practices of modern retailing. Store location and arrangement; organization; merchandising; retail advertising; customer service; personnel management.
- 4113 E-Commerce (Odd Fall)**  
**3 credit hours**  
*Prerequisite: ACCT 2203 and CIS 2223.* A study of the procedures, concepts and purposes underlying the development of accounting web-based systems. Examines web page development, accounting systems, and security and control issues of web-based businesses.
- 4973 Purchasing (Fall)**  
**3 credit hours**  
*Prerequisite: MKTG 3913.* Purchasing practices and control of materials in business operations.
- 4983 Strategic Marketing Management (Spring - as needed)**  
**3 credit hours**  
*Prerequisite: Senior standing, all of the common business core, at least two courses in concentration completed, or consent of instructor.* This is a capstone course for senior-level students designed to integrate and bring all the functional areas of marketing and management into use in the analysis process and strategic decision making process. This will be accomplished primarily through case studies, computer based simulation, and the creation of strategic marketing plans.
- 4993 Marketing Research (Spring)**  
**3 credit hours**  
*Prerequisite: Senior standing and all of the common business core.* This is a capstone marketing course; additional marketing courses are recommended. A study of theories, concepts, and methodology in applying research to marketing problems. Emphasis is on the role of research as a fact-finding and data analysis function, and the findings are used in formulating marketing policies.

## **CHEMISTRY (CHEM)**

- +1135 General Chemistry I (Fall/Spring)**  
**5 credit hours**  
*Prerequisite: Minimum ACT Science subscore of 19 or equivalent. Concurrent enrollment in Math 1513, or Math 1523, or Math 1515, or Math 1525, or Math 1715.* Introduction to the study of the chemical substances, structures, properties, and reactions.

- +2235 General Chemistry II**  
**(Spring)**  
**5 credit hours**  
*Prerequisite:* CHEM 1135 with a grade of "C" or above or equivalent. Continuation of Chemistry 1135 with a laboratory consisting of chemical principles involved in detection of common cations and anions by semi-micro laboratory procedures.
- +2021 Chemical Literature**  
**(May Interterm)**  
**1 credit hour**  
*Prerequisite:* Grade of "C" or above in CHEM 1135 and in CHEM 3315 or equivalent. Brief study of available literature sources which contain original papers on chemistry and related fields. Library research paper is required.
- +3025 Quantitative Analysis Theory**  
**(Offered as needed)**  
**5 credit hours**  
*Prerequisite:* Grade of "C" or above in CHEM 2235. Theory of quantitative analysis including volumetric, gravimetric, and instrumental techniques of analysis with laboratory experiences in volumetric, gravimetric, and instrumental analysis.
- +3213 Pharmacotherapeutics**  
**(Fall/Summer)**  
**3 credit hours**  
Principles of therapeutic pharmacology for restoration and support of psychological, physiological and chemical disturbances in human function. Focus on drugs in the context of their principal uses, their effects on biochemical or physiological processes, and guidelines for nursing intervention indicated by these effects.
- +3315 Organic Chemistry I**  
**(Fall)**  
**5 credit hours**  
*Prerequisite:* Grade of "C" or above in CHEM 1135 or equivalent. Chemistry of organic compounds with emphasis on mechanisms of reactions. Aromatic and aliphatic compounds of theoretical, biological, and technical importance.
- +3325 Organic Chemistry II**  
**(Spring)**  
**5 credit hours**  
*Prerequisite:* Grade of "C" or above in CHEM 3315 or equivalent. A continuation of Chem 3315. Introduction to instrumental analysis and synthesis procedures.
- +3415 Physical Chemistry I**  
**5 credit hours**  
*Prerequisite:* Grade of "C" or above in CHEM 3315 and in CHEM 3325 and MATH 1824. Study of the physical behaviors of compounds and compound mixtures in gases, solutions, and solids.
- +3525 Physical Chemistry II**  
**5 credit hours**  
*Prerequisite:* Grade of "C" or above in CHEM 3415. Continuation of CHEM 3415.
- +4024 Biochemistry I**  
**(Fall)**  
**4 credit hours**  
*Prerequisite:* CHEM 3315 and CHEM 3325.  
An introduction to the chemistry of living systems. Chemical properties of the constituents of living organisms and modes of formation, reactions, and functions of these compounds.



**+4031 Seminar**  
**(May Interterm)**  
**1 credit hour**

*Prerequisite:* Grade of "C" or above in CHEM 2021 and in CHEM 3325 or consent of instructor. Written and oral reports on articles appearing in chemical literature.

**+4034 Biochemistry II**  
**(Spring)**  
**4 credit hours**

*Prerequisite:* Chem 3315 or CHEM 3015 and CHEM 4024. Reaction sequences and cycles in enzymatic transformation of fats, proteins, and carbohydrates, energy transfer, biosynthesis, and integration of metabolic pathways.

**+4333 Principles of Toxicology**  
**3 credit hours**

*Prerequisites:* BIOL 1304, CHEM 1135, and CHEM 3315. Basic principles associated with the toxic effects of chemicals on the living organism while examining the regulatory aspects and applications of toxicology in the workplace. Among the topics covered are the potential adverse effects of drugs, pesticides, food additives, and industrial chemicals on living systems.

**+4405 Instrumental Analysis**  
**(Offered as needed)**  
**5 credit hours**

*Prerequisite:* Grade of "C" or above in CHEM 3325 or equivalent and PHYS 2114 or equivalent. Study of the methods and theory of instrumentation used in modern chemistry.

**+4930 Special Problems in Chemistry**  
**(Offered as needed)**  
**2-3 credit hours**

*Prerequisite:* Grade of "C" or above in prior chemistry courses and consent of instructor. Independent study of selected individuals' research problems. May be repeated once for credit.

## **COMPUTER INFORMATION SYSTEMS (CIS)**

**1001 Computer Literacy**  
**(Fall/Spring)**  
**1 credit hour**

Course introduces basic computer terminology, word processing, and file management skills. Provides an overview of computer hardware, software, and communication networks as well as security and privacy concerns.

**1113 Introduction to CIS**  
**(Fall/Spring)**  
**3 credit hours**

This course provides an overview of computer information systems. Course includes an introduction to how computers work (algorithms, programs, hardware, software, procedures, operating systems); information representation in the computer (numbers, binary, pictures, symbols, sound); and communicating with the computer (program language requirements, problem-solving, decision making, applications, everyday software tools). This course is targeted for students majoring or minoring in CIS, AIS, Technology, Mathematics, or other STEM related fields.

**1983 Logic and Design**  
**(Fall/Spring)**  
**3 credit hours**

*Pre/Corequisite:* MATH 1513 or MATH 1515. Developing a systematic method for analyzing and designing computer algorithms. Emphasis on Boolean Logic, logic charts, and other design tools.

- 2000 Special Topics in Information Systems**  
**(Offered as needed)**  
**1-3 credit hours**  
*Prerequisite: Consent of instructor.* Study of selected topics.
- 2013 Information Systems for Business**  
**(Fall/Spring)**  
**3 credit hours**  
*Prerequisite: Word processing and Internet use skills.* Course will provide an overview of business information systems, e-commerce, ethics, privacy, and security. Course may include use of a project management tool and information system planning.
- 2113 HTML and Web Page Design**  
**Fall/Spring**  
**3 credit hours**  
*Prerequisites: Six hours of CIS or Consent of Instructor.* An in-depth study of web page design with an emphasis on HTML and design tools. Topics include CSS, form design, hosting considerations, URL issues, graphic use, and design concepts.
- 2123 Programming I**  
**(Fall/Spring)**  
**3 credit hours**  
*Prerequisite: CIS 1983 and MATH 1513 or MATH 1515.* Introduction to strategies and techniques of programming design using a structured programming language. Includes algorithm design; program creation using selection, sequence, iteration; variables; math, print, and string functions, and additional fundamental programming concepts. May be repeated with a different language.
- 2223 Micro Applications**  
**(Fall/Spring/Summer)**  
**3 credit hours**  
 Use of productivity application software. Course may be repeated with different software emphasis.
- 2323 Networking Fundamentals**  
**(Spring)**  
**3 credit hours**  
*Prerequisite: Nine hours of CIS, CIS 1983 or Instructor Consent.* Firm grasp of basic networking concepts, baseline knowledge essential to pursuit of all levels of networking. Includes OSI model, network design, protocols, network problem solving, basic network security, and related topics.
- 2303 Lighting and Composition**  
**3 credit hours**  
*Prerequisite: Six hours of CIS.* Will teach students about the use of lighting for video. Light quality, key, fill, separation, and background lighting will be covered as well as studio lighting, outdoor lighting, and various other lighting environments. Also, the Basic cinematography techniques and use of a mid-level digital camcorder.
- 2513 Database Concepts and Design**  
**(Fall/Spring)**  
**3 credit hours**  
 Introduction to the relational model, database design concepts, entity-relationship diagrams, and SQL including data definition language and data manipulation language.
- 2613 Typography**  
**3 credit hours**  
*Prerequisite: Six hours of CIS or consent of instructor.* Investigates the language and practice of typography and its applications. Students will study various types and significant design challenges and will create their own types using typography creation software. Course may be repeated.
- 2623 2D Graphics Applications**  
**3 credit hours**  
*Prerequisite: Nine hours of CIS or consent of instructor.* Learn two-dimensional graphics software concepts, use, and applications. Course may be repeated with different software emphasis.

- 2633 Audio for Video**  
**3 credit hours**  
 An introduction to audio recording and editing for use in video. This course covers acoustics, microphones, editing, sound effects, and other production tools for use in video as well as location audio, sound effects, audio sweetening, and synchronizing audio to video. In addition, this course explores the role that sound plays in determining mood and evoking emotion when combined with visual stimulus.
- 2723 Introduction to Operating Systems**  
**3 credit hours**  
*Prerequisite: CIS 1113 or consent of instructor.* An introductory study of the capabilities and functions of an operating system and a comparative review of Unix-related operating systems and various applications of these systems.
- 2803 Managing and Maintaining Computer Hardware**  
**(Fall)**  
**3 credit hours**  
 In-depth study of computer hardware components and peripherals. Emphasis placed on troubleshooting, maintenance, repair, and installation of components. Prepares student for hardware based certification exam.
- 2813 Managing and Maintaining Computer Software**  
**(Spring)**  
**3 credit hours**  
 In-depth study of computer software, desktop operating systems, and user interface elements. Emphasis is placed on installation, configuration, troubleshooting, and maintenance of operating systems. Students will learn how to install, configure, troubleshoot, and maintain current operating systems for mainstream computers and devices. Emphasis will be placed on operating systems and software covered on the CompTIA(r) A+ certification exam. The course involves both theory and practical application. Additional topics may include user interface elements, diagnostic tools, and systems level software applications. Students must learn and demonstrate ability to effectively communicate with end users and present technical information in a non-technical manner.
- 2823 Applied Networking**  
**(Fall)**  
**3 credit hours**  
*Prerequisite: CIS 2323.* Application of network theory and design as it applies to implementing, addressing, configuring, and troubleshooting intermediate network devices on Local Area Networks according to industry standard practices.
- 3123 Interactive Web Design**  
**3 credit hours**  
*Prerequisite: CIS 2113 and CIS 2513 or consent of instructor.* Interactive web design based on current industry trends and accessibility standards. Course covers user interface design, site architecture, and scripting techniques. May be repeated with different scripting language.
- 3313 3D Modeling I**  
**(Fall)**  
**3 credit hours**  
*Prerequisite: Six hours of CIS courses or consent of instructor.* Introduction to spline and polygonal-based character modeling for use in computer animation. Course may be repeated with different software emphasis.
- 3343 3D Dynamics**  
**(Spring)**  
**3 credit hours**  
*Prerequisite: CIS 3313.* Advanced course in the Maya physics engine. Students will create artificial elements such as wind, fire, water, gravity, mass, weight, velocity, and other physics based properties within a 3D environment to simulate realistic effects.
- 3383 Advanced Modeling and Lighting**  
**3 credit hours**  
*Prerequisite: CIS 3313.* Advanced 3D modeling and dynamic lighting techniques for animation. Course may be repeated with different software emphasis.
- 3393 Video Editing**  
**3 credit hours**  
 Emphasizes nonlinear video editing for digital media. Students produce projects which incorporate desktop video and audio, both digital and analog. Sync-sound, picture-sound editing, timing, and an introduction to cinematography will be discussed. Course may be repeated.

**3413 Video Post-Production****3 credit hours**

*Prerequisite:* CIS 3393. Course explores techniques of using and creating visual effects for video. Students learn techniques including chromakey, masking, transitions, color correction, and others. Students will learn to use video editing software and tools. Course may be repeated.

**3513 Storyboarding****3 credit hours**

*Prerequisites:* Six hours of English and six hours of CIS. Investigates the art of visual storytelling. Student will learn how to develop pre-visualizing techniques for video shots, graphic rendering and other video or graphics productions. Scene creations, transitions, camera angles, and placement of actors are included.

**3533 Digital Forensic Investigation****3 credit hours**

*Prerequisites:* CIS 2323 and CIS 2813 are recommended. Explores computer forensic concepts and techniques. Examines theoretical concepts of digital forensics. This course will adopt a practical hands-on approach when collecting and examining evidence and using computer forensic tools. Along with examining different computer forensic scenarios, this course will explore the advancements of computer forensics, as well as timeless investigative strategies.

**3613 Intermediate Programming****3 credit hours**

*Prerequisite:* CIS 2123. *Corequisite:* CIS 2513 and CIS 2113 or consent of instructor. Language specific intermediate programming concepts, interface design, code design, code implementation, debugging, and testing. Specific languages may include object-oriented concepts and techniques. Course may be repeated with different language emphasis.

**3723 Operating Systems****(Fall)****3 credit hours**

*Prerequisite:* Six hours of CIS or consent of instructor. In-depth study of the capabilities, functions, installation, and management of a Unix related operating system and applications for the system.

**3833 Network Server Administration****(Fall)****3 credit hours**

*Prerequisite:* CIS 2323. Study of network operating system administration and management including NOS installation, terminology, network directory design, management of users, groups, services, storage, and security features. May include virtualization technologies. Course may be repeated with different NOS.

**3893 Network Security****3 credit hours**

*Prerequisites:* CIS 2323, CIS 2813. Explores systems security, network infrastructure, access control, assessments and audits, cryptography, and organizational security. It will also look at the practical use of security tools and techniques for mitigating risk and discovering and analyzing vulnerabilities within the organization.

**4000 Problems: Computer Information Systems****(Offered as needed)****1-4 credit hours**

*Prerequisite:* Consent of instructor. Allows student to pursue areas of interest based on industry needs and changing technologies.

**4013 From Science Fiction to Reality****3 credit hours**

*Prerequisite:* Senior classification and/or consent of instructor. Course examines topics once considered to be science fiction that have come to fruition.

**4023 Texturing for 2D and 3D****3 credit hours**

*Corequisites:* CIS 2623, CIS 3313 or consent of instructor. An introduction to methods of making textures for 2D and 3D games and graphics. Research will include creation and implementation of student made textures into existing game packages or 3D models.

- 4103 UI/UX**  
**3 credit hours**  
*Prerequisite: Junior standing or higher.* Course will provide an overview of user interface and user experience methods. Design elements, procedures, tools, and environments contributing to the management of successful user interfaces are examined.
- 4113 Advanced Programming**  
**3 credit hours**  
**(Fall/Spring)**  
*Prerequisite: CIS 3123 and CIS 3613.* Language specific advanced programming concepts, advanced code design, and implementation, data access, reporting, and multi-tier development. Specific languages may include advanced object oriented concepts and techniques. Course may be repeated with different language emphasis.
- 4123 Advanced Web Design**  
**3 credit hours**  
*Prerequisite: CIS 3123.* Advanced course on web design focusing on front-end development using HTML, CSS, JS and current existing frameworks. Emphasis will be put on creating responsive, modular and mobile-friendly web sites to meet current industry needs.
- 4213 Applied Networking II**  
*Prerequisite: CIS 3213.* Explains the role and configuration of advanced intermediate devices and protocols. Students will also consider security in implementing and configuring network devices and practice network troubleshooting principles.
- 4223 Systems Analysis**  
**(Spring)**  
**3 credit hours**  
*Prerequisite: CIS 2513, 3803, or consent of instructor.* Overview of system development life cycle and system documentation. Both object oriented and structured design will be discussed. Course may include data flow, data structure, file designs, input and output design, program specifications, information gathering, and reporting activities, as well as CASE tools and techniques of systems analysis. Object oriented design will include USE CASE diagrams, descriptions, sequence, activity, and class diagrams.
- 4233 Game Level Design**  
**3 credit hours**  
 Introduction to game world creation used in 3D computer games. Emphasis will be on polygonal models created with 3D applications and 3D modeling software packages. Students will have the opportunity to implement their levels into an existing game. Course may be repeated with different 3D applications.
- 4243 Computer Animation**  
**(Fall)**  
**3 credit hours**  
*Prerequisite: CIS 3383.* Key frame animation of 3D models and multimedia enhancement. Course may be repeated with different software emphasis.
- 4333 Advanced Database**  
**(Spring)**  
**3 credit hours**  
*Prerequisite: CIS 2513 and CIS 3613.* Includes relational models, SQL commands, database structures, Joins, triggers, Advanced Querying, database administration, and management concepts. May be repeated with different software.
- 4413 Web Animation**  
**(Spring)**  
**3 credit hours**  
*Prerequisite: CIS 3113 or consent of instructor.* This course studies the use and creation of web-based animation and graphics. Students will study various types of animations found on the Internet and will design and create web pages using these animations. Course may be repeated with different software emphasis.
- 4443 Project in Animation**  
**(Spring)**  
**3 credit hours**  
*Prerequisite: CIS 4243.* A project-oriented class that students will use to create industry quality models and animations. Projects may deal with computer gaming, movie animations, 3D design, advertising or related areas. Course may be repeated with different project emphasis.

**4613 Applied Networking III****3 credit hours**

The focus of this course is on the WAN technologies and network services required by converged applications in a complex network. Students will learn how to configure and troubleshoot various WAN technologies, protocols, and security measures within different network architectures. The course will emphasize critical thinking, problem solving, collaboration, and the practical application of skills.

**4700 CIS Internship****1-3 credit hours**

*Prerequisite:* Junior standing or above and consent of instructor. Supervised professional-level information systems/information technology assignment with a public, private, or governmental organization.

**4993 Capstone Project****3 credit hours**

*Prerequisite:* Senior CIS major or minor. An advanced project course. Students will design, create and implement a project that must utilize multiple knowledge areas which may include programming, database, web development, network, hardware and other IT skills. Students may use an instructor approved IT internship to meet course requirements.

**COMPUTER TECHNOLOGY (CTEC)****1223 Desktop Publishing****3 credit hours**

Designed to use software to design and publish printed documents. Students will learn how to use software, focusing on document layout, fonts, and various design elements to create professional printed materials. The goal of the course is to teach proper software skills, graphic design, terminology and production techniques that are used in creating flyers, posters, newsletters, invitations, and advertising.

**1823 Marketing for Design****3 credit hours**

Techniques of effective marketing with graphic design. Students learn how to translate business information, both digitally and in print. Students will also learn to use Graphic Design in terms of creating a corporate identity and branding, logo design, and how to be visually engaging.

**2643 Introduction to Game Development****3 credit hours**

Game development life-cycle, from concept to production. Students are introduced to a game design document which explains, through text, diagrams, storyboards, conceptual art or any applicable media, and the concept of a game. Students will learn how to describe the target audience, gameplay, story lines, characters, game rules as they apply to a game, either in a sandbox or linear environment. Testing and prototyping will be used when applicable.

**CRIMINAL JUSTICE (CJ) +****1013 Introduction to Criminal Justice****3 credit hours**

History, philosophy, and functions of community, state, and federal services involved in law enforcement.

**1033 Criminal Law****3 credit hours**

Substantive criminal law with particular emphasis placed on the elements of crime, intent, attempts, search and seizure, and the arrest laws.

**1043 Rules and Procedures of Criminal Evidence****3 credit hours**

*Prerequisite:* CJ 1033. Origin, philosophy, development of, and current interpretation of rules of criminal evidence; appeal process and its effect on rules of evidence; attention to recent US Supreme Court decisions; analysis of types of criminal evidence.

**2063 Principles of Criminal Investigation I****3 credit hours**

*Prerequisite:* CJ 1033. Fundamental principles of investigating a criminal incident, with emphasis placed upon crime scene, interviewing of witnesses, collection and analysis of physical evidence, case preparation for court presentation, and interrogation techniques in light of current federal guidelines.

- 2073 Criminal Investigations II**  
**3 credit hours**  
*Prerequisite:* CJ 1033. Principles of police investigation, evaluation, and processing with an emphasis on death investigations, identity theft, and missing persons.
- 2083 Organization and Administration of Law Enforcement**  
**3 credit hours**  
*Prerequisite:* CJ 1033. Principles of organization and administration of law enforcement agencies and a survey of community, state, and federal enforcement agencies.
- 2333 Community Relations and Ethics**  
**3 credit hours**  
*Prerequisite:* CJ 1033. An examination of the relationships existing between the police and the community; the officer's role relative to the community, crime prevention, civil rights, and the elements of effective community relations. Emphasis on the ethics of law enforcement personnel.
- 2513 Introduction to Corrections**  
**3 credit hours**  
*Prerequisite:* CJ 1013 and CJ 1033. A study of the history, philosophy, and practice of corrections in America. Theories and practices of incarceration; legal and administrative issues surrounding imprisonment and the death penalty.
- 2813 Introduction to Courts and the Legal System**  
**3 credit hours**  
*Prerequisite:* CJ 1013 and CJ 1033. Examines state and federal American court systems, their powers, remedies, limitations and procedures; and the contributions of courts to governance.
- 3233 Introduction to Forensic Science**  
**3 credit hours**  
*Prerequisite:* CJ 1013 and CJ 1033. This course will expose students to the nature of physical evidence and its part in our criminal justice system, an introduction to basic scientific and legal principles involved with the utilization of physical evidence and exposure to specific items of physical evidence to include their components, manufacture, methods of analysis, and value in case work.
- 3533 Probation, Parole, and Intermediate Sanctions**  
**3 credit hours**  
*Prerequisite:* CJ 1013 and CJ 1033. History, philosophy, and practice of community supervision of offenders. Examination of various intermediate punishments including boot camps, intense probation supervision, electronic monitoring, restitution, and community service.
- 3563 Juvenile Justice**  
**3 credit hours**  
*Prerequisite:* CJ 1013 and CJ 1033. Examination of the history of adolescence and the development of the juvenile justice system. An in-depth study of police, courts, and corrections as applied to youth. Consideration of youth as both offenders and victims. Topics include child abuse, youth gangs, waiver/transfer of youth to the adult court, and juvenile offending.
- 3623 Substantive Criminal Law**  
**3 credit hours**  
*Prerequisite:* CJ 1013 and CJ 1033. Jurisprudential philosophy and case study of common law and statutory crimes. Includes functions and development of substantive criminal law, elements of specific offenses and defenses.
- 3713 Ethics in Criminal Justice Practice**  
**3 credit hours**  
*Prerequisite:* CJ 1013 and CJ 1033. Survey of major schools of ethics theory; sources of ethical and philosophical foundations for criminal justice functions; common quandaries confronting officers, supervisors and executives in justice organizations. Examines the role of criminal justice within modern civil societies.
- 4113 Intimate and Family Violence**  
**3 credit hours**  
Historical, social, and legal responses and policies of domestic violence, intimate partner violence, and child abuse. Characteristics of victims and perpetrators of violence and the progression and cycle of violence are examined. In-depth study of the process of violent victimization and victimizing.

**4303    Victimology**  
**3 credit hours**

*Prerequisite:* CJ 1013 and CJ 1033. This course will familiarize students with victimology concepts, theories and literature as a field of study within criminology. Topics will include nature and incidence of victimization, victim and offender relationships, victim justice, victim rights, and services. Consideration will be given to responses to victims with special needs and crime prevention strategies.

**4453    Drugs and Crime**  
**3 credit hours**

An overview of the scope and role of drugs in society and the relationship between illicit substances and crime. Leading theories of drug use and enforcement will be surveyed. Major topics include the social construction of drug issues, the war on drugs, drug control policy, and the function of drugs in popular cultural mediums. Contemporary topics to be examined include asset forfeiture, the confidential informant role in drug enforcement, drug ethnography, corrections-based substance abuse treatment, and drug enforcement strategies.

**4463    Gender and Crime**  
**3 credit hours**

This course examines gender differences in criminal offending and victimization. Topics include traditional and gender-specific theories offered to explain female involvement in crime, the experience of female victims and offenders in the criminal justice system, and women working in the criminal justice system.

**4833    Violent Crime**  
**3 credit hours**

Examination of various forms of violence including homicide, robbery, assault, and rape. Discussion of major theories of violent personal behavior and examination of historical and current data on violent crime. Consideration of rates of violent crime, how these rates have changed, and factors that contribute to violent crimes.

## **EARTH SCIENCE (EASC)**

**+1014    Earth Science**  
**(Taught as needed)**  
**4 credit hours**

Introduction to the sciences related to the Earth including geology, astronomy, meteorology, and oceanography with selected laboratory exercises and experiments to demonstrate earth science principles.

**+1114    Physical Geology**  
**(Fall/Spring/ Summer as needed)**  
**4 credit hours**

*Prerequisite:* Minimum ACT Science sub-score of 19 or equivalent. An introductory-level geology course including the study of minerals, rocks; processes involved with creating various landforms including stream systems and volcanic topography; the study of global tectonics; and the recognition and interpretation of geologic structures.

**+1214    Physical Geography**  
**(Fall)**  
**4 credit hours**

*Prerequisite:* Minimum ACT Science sub-score of 19 or equivalent. Introductory course dealing with the study of Earth's crust, oceans, soils and landscapes with selected laboratory exercises to demonstrate the principles of Earth's features including the study of maps. Will fulfill general education physical science requirement.

**+2014    Natural Hazards**

Introduction to Earth's processes as hazards, disasters, and catastrophes. This course is an introductory-level class concerned with earth processes that have direct and often sudden and violent impacts on human society. It integrates principles of geology, hydrology, meteorology, climatology, oceanography, soil science, ecology, and solar system astronomy.

Five fundamental concepts of natural hazards will be used to examine earthquakes, tsunamis, volcanoes, flooding, tornadoes, hurricanes, coastal hazards, climate change, and impacts and extinctions.

**+2114    Historical Geology**  
**4 credit hours**

*Prerequisite:* Minimum ACT Science subscore of 19 or equivalent. An introduction to fossils and the fossil record along with changes in the Earth's crust, atmosphere and oceans through time with selected laboratory exercises. Fulfills general education physical science requirement.



- +2214 Environmental Geology**  
**(Spring—odd years)**  
**4 credit hours**  
*Prerequisite: Minimum ACT Science subscore of 19 or equivalent.* An introduction to the most important and useful concepts in the study of the environment including Earth systems and resources with selected laboratory exercises. Fulfills general education physical science requirement.
- +3014 Astronomy**  
**(Fall—even years)**  
**4 credit hours**  
*Prerequisite: Minimum ACT Science subscore of 19 or equivalent.* The study of the universe and solar system and the methods used by astronomers in the scientific study of the cosmos, planets, and the birth and death of galactic objects with selected laboratory exercises.
- +3114 Minerals and Rocks**  
**(Fall—even years)**  
**4 credit hours**  
*Prerequisite: Minimum ACT Science subscore of 19 or equivalent.* The study of the origin, occurrence, identification and uses of common rocks and minerals with selected laboratory exercises.
- +3214 Paleontology**  
**4 credit hours**  
*Prerequisite: Minimum ACT Science subscore of 19 or equivalent.* The study of fossils and fossil animals and plants that provide a direct record of the history of life on Earth. Information about the evolution, paleoecology, and paleogeography of the Earth.
- +4000 Seminar**  
**(Offered as needed)**  
**1-2 credit hour**  
*Prerequisite: 8 hours of earth science.* Consideration of selected earth science topics of current interest or importance. May be repeated for a maximum of two hours.
- +4014 Meteorology**  
**(Spring—every other year)**  
**4 credit hours**  
*Prerequisite: Minimum ACT Science subscore of 19 or equivalent.* A survey of atmospheric processes and their influence on weather and climate with selected laboratory exercises.
- +4100 Special Topics**  
**(Spring)**  
**1-4 credit hours**  
*Prerequisite: Any 1000 or 2000 earth science course or consent of instructor.* Study of specific advanced topics in earth science chosen by the instructor.
- +4114 Oceanography**  
**4 Credit Hours**  
*Prerequisite: Minimum ACT Science subscore of 19 or equivalent.* A study of the science of the oceans including their interactions with the atmosphere, chemical and biological components, and physical properties with selected laboratory exercises.

## **ECONOMICS (ECON)**

- 1113 Fundamentals of Economics**  
**(Offered as Needed)**  
**3 credit hours**  
 Combines basic principles of microeconomics and macroeconomics. Will cover basic economic principles, supply and demand, and market equilibrium, market failures, competitive markets, income inequity, measures of economic performance, fiscal and monetary policy, and international trade. This course will not substitute for BADM/ECON 2113 or BADM/ECON 2123.

- +2013 Elements of Economics**  
**(Fall/Spring)**  
**3 credit hours**  
 General Education course for majors that do not specify ECON 2113, ECON 2123, or ECON/AG 2343. Study of general economic principles including institutions, monetary and fiscal policy, supply and demand, market equilibriums, pricing, measures of economic performance, economic cycles, and unemployment, and the role of money. This course cannot be substituted for ECON 2113, ECON 2123 or ECON/AG 2343. This course will cover all the components of the elementary education OSAT II, sub-area III.
- +2113 Principles of Macroeconomics**  
**(Fall/Spring/Summer)**  
**3 credit hours**  
 Study of the economic system as a whole, featuring all major schools of economic thought, forces determining the level of employment output and price, relating these forces to fiscal and monetary policy, and aggregate supply and demand.
- +2123 Principles of Microeconomics**  
**(Fall/Spring/Summer)**  
**3 credit hours**  
*Prerequisite: BADM/ECON 2113.* Study of the behavior of individual industries, firms, and households within the economic system, analyzing the operation of markets for goods, services, and factors of production; behavior of firms and industries in different types of competition and income distribution of final goods and services, function of market factors on capital, land, and international trade.
- +2223 Healthcare Economics**  
**3 credit hours**  
 The fundamental economic principles in contemporary health care. Impact of managed care, prospective payment, and market competition will be discussed.
- +2343 Agricultural Economics**  
**(Fall/Spring)**  
**3 credit hours**  
 Principles of farm production, farm management, agricultural resources, and agricultural policy.
- +3113 Intermediate Microeconomics**  
**(Offered as Needed)**  
**3 credit hours**  
*Prerequisite: ECON 2123.* How economists use economic theory to model and analyze microeconomics. For this focus, most of the course concentrates on firm level and individual industries. The evaluation of firm level decision making as it pertains to how firms operate.
- +3123 National Income Analysis**  
**(Offered as Needed)**  
**3 credit hours**  
*Prerequisite: ECON 2113 and ECON 2123.* National income determination and its distribution; aggregate prices, employment, and economic growth.
- +3313 Intermediate Macroeconomics**  
**(Offered as Needed)**  
**3 credit hours**  
*Prerequisite: ECON 2113.* How economists use economic theory to model the macroeconomy. For this focus, most of the course concentrates on learning and understanding economic theory which illustrates how the economy works.
- +3423 Public Finance**  
**(Offered as Needed)**  
**3 credit hours**  
 Public expenditures, government fiscal policy, economics of taxation, and sources of government receipts.
- +3453 Price Theory and Resource Allocation**  
**(Offered as Needed)**  
**3 credit hours**  
*Prerequisite: ECON 2113 and ECON 2123.* Fundamental techniques of price theory, firm organization, and factor pricing.

- +3573 Money and Banking**  
**(Offered as Needed)**  
**3 credit hours**  
*Prerequisite: ECON 2113, AG 2343, ECON 2123, or consent of instructor.* Modern currency, banking and credit, and their places in present financial organization.
- +3813 Economic History of the United States**  
**(Offered as Needed)**  
**3 credit hours**  
*Prerequisite: Sophomore standing.* Development of agriculture, industry, and commerce of the United States; the organization of economic life.
- +4000 Problems in Economics**  
**(Offered as Needed)**  
**1-3 credit hours**  
 Problems and/or independent study course in economics.

## **EDUCATION (EDUC)**

- 1003 Foreign Language Proficiency**  
**3 credit hours**  
 May be repeated with different foreign languages.
- 1123 Nutrition**  
**Scheduled through the Nursing Department**  
**3 credit hours**  
 Consideration of basic nutrition related to food and good health. Nutritional issues and problems in the present socio-economic and cultural environment.
- 1222 College Reading**  
**2 credit hours**  
*Prerequisite: DEVR 0222 or minimum ACT Social Studies Reading sub score of 19 or equivalent or consent of instructor.* Designed for students who want to increase their reading vocabulary, comprehension skills, and speed of reading. In-depth exploration of the use of more effective study techniques and skills. Two lecture hours and one laboratory hour per week.
- 2001 Education Seminar**  
**(Fall/Spring)**  
**1 credit hour**  
 This is the introductory course for sophomores seeking admission into the OPSU Teacher Education Program. The course will address admission requirements, certification examinations, portfolio requirements, Oklahoma teacher shortage areas, Oklahoma Academic Standards, and other related topics.
- 2113 Introduction to Education**  
**(Fall/Spring)**  
**3 credit hours**  
 Explores the historical and philosophical foundations of education, the practical application of these philosophies, the legal and financial aspects of today's common school system; introduces the element of educational research to the students.
- 2213 Human Development: Child and Adolescent Psychology**  
**(Fall/Spring)**  
**3 credit hours**  
 This course is designed to develop an understanding of the laws and principles that relate to the growth and maturation in motor, physical, mental, and emotional aspects of human behavior from childhood through adolescence.

**2222 Communication Skills for Teachers****(Fall/Spring)****2 credit hours**

*Prerequisite:* "C" or better in ENGL 1113, ENGL 1213, and COMM 1113. Course is designed to meet the needs of those who plan to enter the Teacher Education Program and pursue the teaching profession. It will help candidates refine their communication skills in preparation of meeting with the constituents in the education system, as well as for meeting the needs of their prospective students in the public schools. They will receive instruction and practice in expository and persuasive writing, in use of the English language, in reading critically, and in public speaking in order to communicate with the audiences of parents, administrators, and other public entities.

**2233 Diversity in Education****(Fall/Spring)****3 credit hours**

Examines current issues and trends in educational practices through the perspectives of history, philosophy, sociology, psychology, anthropology, and the politics of education. Focus will be placed on theoretical and practical issues of diversity in classroom settings, especially related to culture, race, gender ethnicity, language, and socio-economic levels.

**2323 Reading in the Content Area****(Spring)****3 credit hours**

*Prerequisite:* EDUC 2001 and 2113 or permission of Dean of Arts and Education. Helps prospective teachers in grades 1-12 realize the importance of reading to learn content. Focus is placed on planning of curriculum, reading/writing connections with texts; recognition of reading difficulties because of text levels, format, and organization; instructional (teaching) strategies using text; inclusion of diverse students; assessment strategies; technology use; and professional development.

**2623 Children's Literature****(Fall)****3 credit hours**

*Prerequisite:* EDUC 2001 and 2113 or permission of Dean of Education. Focuses on the study of various genres of literature of children with emphasis upon criteria for selecting and interpreting quality material for children who are at different developmental levels and upon recognizing the dimensions of response to literature. The class is required for elementary education and is highly recommended for prospective parents and those who work with children or young adults.

**3003 Introduction to Secondary Education****3 credit hours**

Survey of the organizational, historical, philosophical, and legal issues associated with secondary schools in the U.S. Emphasis will be directed toward benefiting the secondary teacher. Outside class assignments will be included that contain observations and reflections on the pre-service participation in secondary, elementary, and special education classrooms, as well as attendance at school board meetings.

**3013 Learning Processes of Secondary Students****3 credit hours**

A study of the developmental motor, social, cognitive, and emotional growth and maturation of school age children with an emphasis on the junior high ages.

**3223 Education of the Exceptional Child****(Fall)****3 credit hours**

*Prerequisite:* Admission into the Teacher Education Program. Survey of special education in which the various areas of exceptionality are investigated with a focus on problems encountered by the classroom teacher. Emphasis on types of exceptionalities, techniques of identification, teaching, and resources/assistance available to teachers.

**3233 Methods and Materials Elementary Reading  
(Fall)**

**3 credit hours**

*Prerequisite:* EDUC 3313 and admission to Teacher Education Program. This course will continue the development of an understanding of the theoretical and practical aspects of pedagogy as it applies to effective and scientific research based methods of teaching reading. This course will continue the development of the understanding of the 5 elements of reading and how the aspects of the elements are used in correcting reading problems. Clinical experience and service learning will be done through tutoring public school students with practice of correcting reading problems using the knowledge of the 5 elements of reading, scientific research methods, research from the National Reading Panel, and best practices with diverse student populations. This course will also include a brief overview of diagnosing reading problems.

**3243 Guidance of the Young Child**

**3 credit hours**

*Prerequisite:* EDUC 3343. Introduction to early childhood education; emphasis on developmental needs and behavior of preschool-children; methods and principles of guidance.

**3253 Diagnostics and Prescriptive Teaching of Reading  
(Spring)**

**3 credit hours**

*Prerequisite:* EDUC 3313 and admission to Teacher Education Program. This course will continue the development of an understanding of the theoretical and practical aspects of pedagogy as it applies to effective and scientific research based methods of diagnosing and correcting reading problems. This course will continue the development of the understanding of the 5 elements of reading and how the aspects of the elements are used in diagnosing correcting reading problems. This course will provide instruction on diagnosing and correcting reading problems using methods, techniques, practices, assessment tools, and materials that are currently being used in the public school systems and federal mandates as well as working with diverse populations. Clinical experience and service learning will be done through tutoring public school students with practice in diagnosing and correcting reading problems using the knowledge of the 5 elements of reading, scientific research based methods, research from the National Reading Panel, and best practices with diverse student populations.

**3313 Foundations of Reading Instruction  
(Fall/Spring)**

**3 credit hours**

*Prerequisite:* Admission to Teacher Education Program. This course will address the content of the 5 elements of reading, research from the National Reading Panel, scientific based research on reading, state legislation that involves reading, and federal legislation that involves reading such as: NCLB, Reading First, and Title I. This course will also study the needs of readers in regards to the 5 elements of reading, content area reading, and diverse student populations. This course will include a brief overview of the pedagogy of diagnosing and correcting reading problems.

**3333 Methods and Material/Creative Arts  
(Spring)**

**3 credit hours**

*Prerequisite:* Admission to Teacher Education Program. Encompasses the study of art, music, drama, and dance appropriate for early childhood and elementary school children. Emphasis will be placed on the integration of aesthetic and creative experiences into the elementary curriculum.

**3343 Child Development: Cognitive Skills**

**3 credit hours**

Study of the factors related to the cognitive, physical, social, and emotional development of young children from conception to age nine. Explanation of cognitive development will focus on the children's developmental needs in language, mathematics, science, and social studies areas.

**3563 Field Experience Practicum I****3 credit hours****(Fall)**

*Prerequisite:* Admission into the Teacher Education Program. Pre-service field experiences involving observations and participation in the education of public school students.

**3603 Early Childhood Education: Curriculum and Program Planning****3 credit hours**

Early childhood education daily and long-range curriculum program planning semester. Including social studies, art, music, language development, pre-reading, mathematics, and science.

**4000 Problems in Education****(Offered as needed)****1-4 credit hours**

*Prerequisite:* Admission into the Teacher Education Program. Research in current educational practice and innovations to improve teacher effectiveness.

**4001 Education Workshop****1 credit hour**

Especially designed for classroom teachers interested in new methods and techniques in the presentation of subject matter. May be repeated for credit.

**4173 Methods and Materials of Teaching Elementary Science and Mathematics****(Fall)****3 credit hours**

*Prerequisite:* Admission into the Teacher Education Program. Materials, methods, and classroom procedures related to teaching science and mathematics in the elementary school.

**4223 Methods and Materials of Teaching Elementary Language Arts****(Spring)****3 credit hours**

*Prerequisite:* Admission into the Teacher Education Program. Materials, methods, and classroom procedures related to teaching language arts in the elementary classroom.

**4273 Field Experience Practicum II****(Spring)****3 credit hours**

*Prerequisites:* Admission into the Teacher Education Program. Pre-service field experiences involving participation in the education of public school students.

**4312 Classroom Management****2 credit hours**

*Prerequisites:* Admission into the Professional Semester. Exploration of positive classroom techniques and management strategies.

**4313 Educational Psychology****(Fall/Spring)****3 credit hours**

*Prerequisite:* EDUC 3213 and admission to the Teacher Education Program/ or Permission from Dean of Education. Designed to promote more effective teaching through an understanding of psychological principles. This course will cover teaching as a profession by addressing qualities of good teachers, including personal qualities and psychological and philosophical approaches to teaching and classroom management. It will also cover issues of multicultural education, diversity, memory, learning theory, and motivation.

**4322 Methods and Materials in Secondary Teaching****(Fall)****2 credit hours**

*Prerequisite:* Admission in to the Teacher Education Program/or Permission from Dean of Education. Materials, methods, and classroom procedures related to teaching at the secondary level. Required of all secondary education majors.

- 4323 Methods and Materials in Social Studies in the Elementary School (Spring)**  
**3 credit hours**  
*Prerequisite:* US history, political science, geography, and admission into the Teacher Education Program. Objectives, methods, and procedures of teaching social studies in the elementary grades.
- 4333 Educational Technology (Fall/Spring)**  
**3 credit hours**  
*Prerequisite:* Admission in to Teacher Education Program. This course is designed for the purpose of integrating modern computer technology into the elementary and secondary school classrooms. Students will be exposed to numerous technologies (computer software, scanners, ITV, multimedia, digital cameras, etc.) and will be able to adapt these technologies into daily lesson planning. As a result, technology will become a tool in the natural flow of the teaching and learning process.
- 4362 Educational Tests and Measurements**  
**2 credit hours**  
*Prerequisite:* Admission into the Professional Semester. Principles and techniques of measuring educational attainment; essay and objective tests and their construction; standard scores and grading systems; standardized tests; use of educational research.
- 4423 Instructional Strategies for Secondary Teachers**  
**3 credit hours**  
 Course will explore the methods and materials used in secondary teaching. Emphasis will be placed on the Oklahoma PASS/C3/CCSS competencies and in the understanding of and use of self-constructed lesson plans. Outside class assignments will be included that contain observations and possible micro-teaching opportunities in the public schools.
- 4433 Elementary Classroom Management and Assessment (Fall/Spring)**  
**3 credit hours**  
*Prerequisite:* Admission in to the Teacher Education Program. Exploration of positive elementary classroom techniques and management strategies. Principles and techniques of measuring education attainment; essay and objective tests and their construction; standard scores and grading systems; standardized tests; use of educational research.
- 4450 Directed Observations and Student Teaching in Elementary School (Fall/Spring)**  
**12 credit hours**  
*Prerequisite:* Admission into the Professional Semester. Designed to give each prospective teacher observations and practical experiences in classroom instruction on the elementary level under the guidance and supervision of a successful classroom teacher in a public school. The assignment will be for a full semester.
- 4533 Secondary Classroom Management and Assessment (Fall/Spring)**  
**3 credit hours**  
*Prerequisite:* Admission to the Teacher Education Program/or Permission from Dean of Education. Exploration of positive classroom techniques and management strategies. Principles and techniques of measuring educational attainment; essay and objective tests and their construction; standard scores and grading systems; standardized tests; and use of educational research.
- 4720 Directed Observations and Student Teaching in the Secondary School (Fall/Spring)**  
**12 credit hours**  
*Prerequisite:* Admission into the Professional Semester. Designed to give each prospective teacher observations and practical experiences in classroom instruction on the secondary level under the guidance and supervision of a successful classroom teacher in a public school. Individual weekly conferences with the supervising teacher will be scheduled to discuss practical problems arising in the classroom as well as general problems related to the teaching profession. The assignment will be for a full semester.
- 4750 Observation and Student Teaching in Elementary and Secondary Schools (Fall/Spring)**  
**12 credit hours**  
*Prerequisite:* Admission into the Professional Semester. Designed to give each prospective teacher observations and practical experiences in classroom instruction at both the elementary and secondary level under the guidance and supervision of successful classroom teachers at both levels in the public schools. Evaluations will be provided from both levels of student teaching and conferences will be scheduled with both public school teachers. The assignment will be for a full semester with one-half of the assignment to be served in an elementary setting (grades 1-8) and one-half to be served in a secondary school setting (grades 7-12).

## EMERGENCY MEDICAL SERVICES (EMS)

### 1133 First Responder

#### 3 credit hours

Designed to assess patients and determine what medical care is necessary. This level of training is a minimum requirement for all Police and Fire Departments. Upon successful completion of the course, students will be certified through the American Heart Association at the Health Care Provider level, and be able to set the NREMT First Responder Exam.

### 1145 EMT Basic

#### 5 credit hours

Designed to prepare students to the level of Emergency Medical Technician (EMT) - Basic. Both will be eligible for the

### 1345 Paramedic Care I

#### 5 credit hours

*Prerequisite:* EMS 2333 and EMS 1249; *Corequisite:* EMS 2333. Designed to cover the structure and function of the human heart and how it relates to electrophysiology and dysrhythmia analysis. It is also designed to give the student the basic knowledge, skills and confidence to successfully interpret ECG strips in the patient care setting. Upon completion of this course the paramedic student will be able to summarize and correctly interpret the legal standards of drug therapy: identify and correctly interpret actions of emergency drugs; accurately calculate doses, dosage and routes of administration for emergency patients based on indications, contra indications, standing orders, verbal orders and accepted pre-hospital care protocols; and demonstrate correct aseptic techniques in preparation and administration of drugs. In addition, this course will discuss the nature of trauma and its cost to society, the concepts of trauma care systems and role of the paramedic in trauma care. Discussion will include the following: blunt force trauma, triage protocols and physiology of injuries. Students will be required to complete 88 hours of clinical rotations.

### 2111 Incident Management System

#### 1 credit hour

An introduction to the National Incident Management System (NIMS). Focus is the practical application of IMS to a variety of emergency operations including structural fires, wildland fires, EMS, and hazardous materials. Staff functions, sections, branches, sectors, divisions/groups are discussed.

### 2211 Emergency Vehicle Operation

#### 1 credit hour

Introduces fire and EMS personnel to laws and liabilities, preventive maintenance, emergency response considerations, crash and injury prevention, and safe driving techniques. Meets NFPA 1002 and 1451.

### 2333 Rescue Awareness

#### 3 credit hours

*Prerequisite:* EMS 1145. Discusses the varying involvement of EMS personnel in rescue operations, scene safety, including HAZMAT, assessing and treating contaminated patients, crime scene operations, preserving evidence, medical incident command, surface and under the surface water rescues, vehicle rescues, and search techniques.

### 2545 Paramedic Care II

#### 5 credit hours

*Prerequisite:* EMS 1345. The study of the assessment and management of neurological, endocrine, allergies and anaphylaxis, gastroenterology, urology, toxicology, environmental conditions, infectious diseases, psychiatric, and hematological emergencies. Discussion and review of the following: the respiratory system anatomy, physiology, and pathophysiology, respiratory emergencies emphasizing recognition and treatment of these problems. This course is also designed to give the student the knowledge to administer and interpret the 12-lead ECG. Students will be required to complete 108 hours of clinical rotations.

### 2555 Paramedic Care III

#### 5 credit hours

*Prerequisite:* EMS 2545. Discusses and reviews the female reproductive system anatomy, physiology, pathophysiology, and the recognition and management of normal and complicated pregnancy and delivery. Discussion and review of the following: the recognition and management of gynecological emergencies and the anatomy and physiology of pregnancy. It will also provide an overview of common and uncommon pediatric emergencies encountered as well as presenting specialized pediatric assessment techniques and emergency procedures. This course will also discuss the specialized world of neonatology, pediatrics, geriatrics and their assessment and treatment. Other discussion and review of the following: the abused and assaulted patient, their assessment and treatment; and the assessment and treatment of the chronic-care and the challenged patient; as well as assessment-based management. Students will be required to complete 156 hours of clinical rotations.



**ENGLISH (ENGL)****0112 Writing Workshop for ENGL 1113****2 hours**

Provides targeted instruction for ill-prepared students (<16 on ACT) enrolled in English 1113: Freshman Composition I. Instructor and students work one-on-one on grammar/writing problems experienced by individual students.

**0113 Basic English Skills****(Fall/spring)****3 hours**

Building on basic language and grammar skills, students prepare to write sentences leading to paragraphs to enter college-level English composition. Designed for students with an ACT score of 14 or below. ENGL 0113 is a pre-requisite to ENGL 0112/ENGL 1113.

**1113 Freshman English I****(Fall/Spring/Summer as needed)****3 credit hours**

*Prerequisite: Minimum ACT English subscore of 19 or equivalent or UCEN 0123.* Essentials of expository theme building concentrating on standard conventions of the English language.

**1115 Freshman English I PLUS****5 credit hours**

A co-requisite model general education English course that may be substituted for Freshman English I (ENGL 1113). For students with less than 19 on ACT English subscore or equivalent. Essentials of expository theme building concentrating on standard conventions of English language.

**1213 Freshman English II****(Fall/Spring/Summer as needed)****3 credit hours**

*Prerequisite: Minimum ACT Reading subscore of 19 or equivalent ENGL 1113.* Essentials of expository theme writing concentrating on research techniques and a theme of the instructor's choice. OPSU will not accept CLEP credit for ENGL 1213.

**+2000 Special Topics in English****1-3 credit hours**

This problems/special topics/independent study course may be offered for 1, 2, or 3 hours of credit and may be repeated with different content for up to 6 hours.

**+2413 Critical Approaches to Literature\*\*****(Fall)****3 credit hours**

*Prerequisite: ENGL 1213. May be taken concurrently with ENGL 1213.* Foundation course for the study of literature: short story, poetry, novel, drama, and film.

**+2423 The Short Story\*\*****(Spring)****3 credit hours**

*Prerequisite: ENGL 1213. May be taken concurrently with ENGL 1213.* History and development of short stories of the world.

**+2453 Adolescent and Young Adult Literature\*\*****(Spring—Even)****3 credit hours**

Introduces students to the world of adolescent and young adult literature: history, cultural aspects, critical perspectives, characteristics, and trends; research assignments on selected examples of said literature; discussing sample literature.

**+3013 English Usage****(Fall)****3 credit hours**

*Prerequisite: ENGL 1213.* Study of the parts of speech, linguistics, and history of the English language.

- +3023 Technical Writing**  
**(Fall)**  
**3 credit hours**  
*Prerequisite:* ENGL 1213. Technical writing as applicable to the forms of writing required in careers and graduate schools. Applied writing in each student's area of specialization.
- +3111 History of the English Language**  
 (Offered as Needed)  
 1 credit hour  
*Prerequisite:* ENGL 3013. Introduces students to the concept of language change, the major changes that have occurred in English, and the social events that prompted those changes. Designed to help English Education majors pass the OSAT.
- +3123 Advanced Grammar**  
**(Spring)**  
**3 credit hours**  
 Thorough study of the conventions of standard written English.
- +3143 Survey of British Literature I\*\***  
**(Fall)**  
**3 credit hours**  
 Survey of British literature from the Middle Ages through the 17th century.
- +3153 Survey of British Literature II\*\***  
**(Spring)**  
**3 credit hours**  
 Survey of British literature from the Restoration through the Romantic periods.
- +3163 Survey of British Literature III\*\***  
**(Fall)**  
**3 credit hours**  
 Survey of British literature from the Victorian period through the present.
- +3173 Survey of American Literature I\*\***  
**(Fall)**  
**3 credit hours**  
 American literature from colonial times to Whitman.
- +3183 Survey of American Literature II\*\***  
**(Spring)**  
**3 credit hours**  
 American literature from Twain to the present.
- +3242 Poetry**  
**(Fall)**  
**2 credit hours**  
 Types of poetry and underlying principles of English verse.
- +3353 World Literature\*\***  
**(Fall)**  
**3 credit hours**  
 Representative world masterpieces of ancient, classical, Renaissance, and modern literature in translation.
- +3363 Selected Topics\*\***  
**3 credit hours**  
 Reading and discussion in world literature. May be taken more than once with content change. May count for humanities credit dependent on topic.
- +3373 Multicultural Literature\*\***  
**(Fall)**  
**3 credit hours**  
*Prerequisite:* ENGL 2413. An introduction to literature written by authors from a variety of cultures and subcultures around the world.

- +3883 Shakespeare\*\***  
**(Fall)**  
**3 credit hours**  
 Shakespeare's major plays.
- +4000 Problems in English \*\***  
**1-3 credit hours**  
 Problems and/or independent study course in English. May be taken more than once with varying topics and/or assignments and/or needs. May count for humanities credit dependent on topic.
- +4002 Seminar\*\***  
**(Offered as Needed)**  
**2 credit hours**  
 Topic: Instructor's choice. May be taken more than once because of varying topics and reading lists. May count for humanities credit dependent on topic.
- +4123 Advanced Composition**  
**(Spring)**  
**3 credit hours**  
*Prerequisite: ENGL 1213 and 3123.* Various structures of advanced writing with frequent student writing contributions.
- +4432 Analysis of Modern Drama\*\***  
**(Spring)**  
**2 credit hours**  
*Prerequisite: COMM 2423 or ENGL/HUM 2413 or consent of instructor.* Analysis of selected modern dramas to show the repetition and continuation of historical forms as well as an indication of the trends in contemporary dramatic writing through the study of professional theater critiques.
- +4433 Graphic Narratives**  
**(Spring)**  
**3 credit hours**  
*Prerequisite: ENGL 1213.* Addresses the elements of reading and writing graphic literature, focusing on the relationship between images and words. Students will learn the basic terms and functions of world, character, narrative, and formal design by investigating graphic texts written by others, as well as creating graphic texts themselves.
- +4453 The Novel\*\***  
**(Offered as Needed)**  
**3 credit hours**  
*Prerequisite: ENGL 2413.* Provides an introduction to the novel as a genre, including formal and content elements, as well as a survey of key texts in the genre's development. May count for humanities credit dependent on topic.

## **ENGLISH AS A SECOND LANGUAGE (ESL)**

- 3013 American Culture Patterns**  
**3 credit hours**  
 This course prepares teachers of TESOL to understand the cultural backgrounds of their students, the function of language as a part of culture, and the role of American public education in dealing with minority groups.
- 3033 ESL Methods and Materials**  
**3 credit hours**  
 Contemporary methods and materials used in the teaching of ESL K-12, emphasizing contextualized aspects of second language teaching.
- 3043 ESL Assessment and Interpretation**  
**3 credit hours**  
 Provides students with an understanding of second language development and the theoretical underpinnings necessary for non-biased assessment.
- 3053 Applied Linguistics and Language Development**  
**3 credit hours**  
 Provides a theoretical and practical background in the nature of language, grammars, language universals, first and second language acquisition, and language variation as well as phonology, morphology, syntax, and semantics as related to all languages.

**FIRE PROTECTION (FPST)****1111 Hazardous Materials Awareness****1 credit hour**

The study for chemical characteristics and behavior of various materials. Topics include storage, transportation, handling hazardous emergency situations, and the most effective methods of hazard mitigation. Lab required.

**1113 Fire Fighter I Certification****3 credit hours**

This course is an entry-level training program for fire protection students and other paid and volunteer fire fighters. The course is based on the National Fire Protection Association 1001 professional qualification standard. Basic fire suppression, hazardous materials, fire safety education and rescue skills are addressed. Live fire training is included in the course. Professional certification as a Fire Fighter I and Hazardous Materials First Responder — Awareness level offered at successful conclusion of course.

**1123 Emergency Medical Tech — Basic Certification****3 credit hours**

Provides students with the skills and knowledge for National Registry certification as an Emergency Medical Technician-Basic. Course addresses patient assessment and care at the basic life support level. Clinical and ambulance work required during course. Successful completion of course allows student to participate in the National Registry certification process for EMT-Basic.

**1212 Principles of Safety and Survival****2 credit hours**

Introduces the basic principles of the national firefighter life safety initiative, focusing on the need for cultural and behavioral change throughout the emergency services.

**1213 Principles of Emergency Services****3 credit hours**

Provides an overview to Fire Protection and Emergency Services career opportunities; the culture and history of the emergency services, organization and function of private and public emergency services, general hazards associated with emergency services, and introduction to local laws and regulations of emergency services.

**1313 Building Construction for FPST****3 credit hours****(Spring)**

Provides the components of building construction related to firefighter and life safety. The elements of construction and design of structures are shown to be key factors when inspecting buildings, pre-planning fire operations, and operating at emergencies.

**1413 Fire Service Instructor****3 credit hours****(Summer)**

Designed to develop the skills necessary to design and deliver fire service related training courses and to then evaluate learning to determine if the objectives of the course have been achieved. The course exceeds the requirements of the national Fire Protection association standard 1041 for Fire Service Instructor I and II.

**1513 Fire Safety Education Practices****3 credit hours****(Fall)**

Development of skills and knowledge required to effectively develop, conduct and evaluate fire and life safety education presentations in the community. Analysis of target audience needs, the socio-economic impact on fire and injury, and the process of behavior change through education are examined. The course exceeds the requirements of NFPA 1035 standard for Fire/Life Safety Educator I and II. Professional certification as a Fire/Life Safety Educator I offered at successful conclusion of course.

**1614 Fire Behavior and Combustion****4 credit hours****(Summer)**

Explores the chemistry and physics of how fires start, spread, and methods of suppression.

**2111 Incident Management System****1 credit hour**

Introduction to the National Fire Service Incident Management System. Practical application of IMS to a variety of emergency operations including structure fires, wildland fires, EMS, and hazardous materials. Staff functions, sections, branches, sectors, and divisions/groups are discussed.

- 2213 Fire Protection Systems**  
**3 credit hours**  
**(Spring)**  
 Provides students with basic working knowledge of current fire protection systems including automatic sprinklers, fire detection systems including automatic sprinklers, fire detection systems, and standpipes. Emphasis on testing and maintenance of systems and their use to assist fire suppression operations.
- 2223 Fire Prevention**  
**3 credit hours**  
**(Fall)**  
 Provides a fundamental knowledge in the field of fire prevention. Topics include fire codes and enforcement, history and philosophy of fire prevention, application of codes and standards, fire and life safety education, pre-planning, and techniques of fire inspection.
- 2314 Fire Protection Strategy and Tactics**  
**4 credit hours**  
**(Spring)**  
 Addresses development of strategy and tactics for residential, commercial, and light industrial structural fire incidents. Focus is on development of strategy and tactics that maximize available fire suppression resources, protect the public, application of IMS, and ensure the safety of fire suppression personnel. Uses scenarios and case studies to apply theory. Meets requirements of NFPA 1021, section 2.6.
- 2323 Hazardous Materials Operations**  
**3 credit hours**  
**(Fall)**  
 Reviews current fire service hazardous materials operations. Focus is on management of hazardous materials response operations including determining type of product, risks associated with incident, development of operational plan, decon, and use of multi-agency resources. Pertinent local, state and federal regulations are reviewed. Uses scenarios and case studies to apply theory. The course meets requirements of NFPA 472, Chapter 5.
- 2331 Wildland Fire Operations**  
**1 credit hours**  
 Provides an overview of wildland fire operations including wildland fire behavior, basic strategy and tactics, fire fighter safety, IMS, and state and federal wildland resources. Uses scenarios and case studies to apply theory. The course meets a portion of the requirements of NFPA 1051, Chapters 2 and 3.
- 2444 Leadership and Supervision**  
**4 credit hours**  
 Examines the role of the company officer as a fire service leader and supervisor. Current management and supervisory methods and approaches are addressed. Focus is on use of leadership to positively influence the work group. Role-play is used to apply principles and methods. A research paper on a current leadership issue is required. Course exceeds requirements of NFPA 1021, sections 2.2 and 3.2. Professional certification as Fire Officer I offered at successful conclusion of course.
- 2445 Hazardous Materials Technician**  
**5 credit hours**  
 In-depth course in the duties, responsibilities, and tactics of a hazardous materials technician. The student will study and use control techniques and equipment; address selection and use personal protective equipment (including decontamination equipment); and study/use monitoring devices a haz-mat technician would be expected to use.

## **GEOGRAPHY (GEOG)**

- +2243 Elements of Human Geography**  
**(Fall)**  
**3 credit hours**  
 Study leading to the understanding of the world as the home of man; relationships of such factors as the earth as a globe; climate, land forms, water bodies, minerals, and cultural patterns of the world.
- +3603 World Regional Geography**  
**(Spring - odd years)**  
**3 credit hours**  
 Delimitation and analysis of distinctive physical regions of the continents with emphasis on man's adaptivity to special restrictive environments.

**+3613 Geography of the United States****(Spring—even years)****3 credit hours**

Analysis of the social, cultural, and physical aspects of US geography.

**HEALTH and PHYSICAL EDUCATION (HPE)****1001 Lifetime Wellness****(Fall)****1 credit hour**

Required of all HPE majors and is not transferable in to OPSU. This is the place all HPE degree seekers will take the first fitness test required by OPSU. If a student does not pass the fitness test (3 of the required 5 areas must be met at the acceptable level), the student will be given a plan of action to take and be required to retake the test.

**1011 Beginning Swimming\*****(Fall/Spring/Summer)****1 credit hour**

Basic water and safety skills to make an individual reasonably safe around the water.

**1123 Introduction to Athletic Training****3 credit hours**

Introduction to the profession of athletic training. Basic history, policies and procedures, management, and prevention techniques related to athletic training. Development of essential skills and competencies needed to perform selected athletic training procedures. Included lab portion for development of skills.

**1321 Gymnastics\*****1 credit hour**

Instruction and participation in tumbling and apparatus work of all types currently being used in schools.

**2001 Fitness Activity\*****(Fall)****1 credit hour**

Activity class to promote individual fitness and wellness. May be repeated.

**2003 Introduction to Management and Instruction in Physical Activities****(Fall/Summer)****3 credit hours**

Introductory course in the management and planning of physical activities including planning sequential activities for participants, acquiring necessary supplies and materials for day to day use, and processes used in the management of daily physical activities.

**2011 Individual Sports\*****(Fall/Spring)****1 credit hour**

Instruction and practice in weightlifting, volleyball, aerobics, skiing, and racquetball.

**2012 Fundamentals and Coaching of Football****(Fall)****2 credit hours**

*Prerequisite: HPE majors and minors or consent of instructor.* Designed to provide students interested in coaching with experience which will allow them to develop an understanding of and basic fundamental skills unique to football. Additional emphasis is given to the study of coaching theories and techniques. Individual demonstration of skills is required.

**2021 Golf\*****1 credit hour****(Fall/Spring)**

For beginners.

- 2022 Fundamentals and Coaching of Basketball (Fall)**  
**2 credit hours**  
*Prerequisite: HPE majors and minors or consent of instructor.* Designed to provide students interested in coaching with experience which will allow them to develop an understanding and basic fundamental skills unique to basketball. Additional emphasis is given to the study of coaching theories and techniques. Individual demonstration of skills is required.
- 2032 Fundamentals and Coaching of Baseball and Softball (Fall)**  
**2 credit hours**  
*Prerequisite: For HPE majors and minors or consent of instructor.* Designed to provide students interested in coaching with experience which will allow them to develop an understanding and basic fundamental skills unique to baseball and softball. Additional emphasis is given to the study of coaching theories and techniques. Individual demonstration of skills is required.
- 2042 Officiating (Spring)**  
**2 credit hours**  
*Prerequisite: Junior standing.* Methods of training officials; rules and their interpretation.
- 2052 Fundamentals and Coaching of Track and Field (Spring)**  
**2 credit hours**  
*HPE majors and minors or consent of instructor.* Designed to provide students interested in coaching with experience which will allow them to develop an understanding and basic fundamental skills unique to track and field. Additional emphasis is given to the study of coaching theories and techniques. Individual demonstration of skills is required.
- 2061 Social Dance\***  
**1 credit hour**  
 Elementary course in different types of social dances.
- 2062 Fundamentals and Coaching of Volleyball (Spring)**  
**2 credit hours**  
*Prerequisite: HPE majors and minors or consent of instructor.* Designed to provide students interested in coaching with experience which will allow them to develop an understanding and basic fundamental skills unique to volleyball. Additional emphasis is given to the study of coaching theories and techniques. Individual demonstration of skills is required.
- 2071 Dance Production\***  
**1 credit hour**  
*Prerequisite: permission of instructor.* Advanced course designed to prepare students for half-time dance productions.
- 2102 First Aid (Fall/Spring/Summer)**  
**2 credit hours**  
 Standard first aid course.
- 2114 Assessment and Management of Musculoskeletal Injuries**  
**4 credit hours**  
 Recognition and management of medical conditions affecting athletic participants. Medical history, use of evaluative tools, knowledge of various conditions and diseases, and clinical evaluation techniques for musculoskeletal disorders. This course will correspond directly with clinical observation placement and skills will be evaluated under the supervision of ATC.
- 2122 Care and Prevention of Athletic Injuries (Fall/Spring/Summer)**  
**2 credit hours**  
*Prerequisite: HPE 2102.* Practical applications in taping, wrapping, and exercising to prevent and treat athletic injuries. Techniques used in the emergency procedures of athletic events will be examined.

- 2212 School and Community Health**  
(Fall)  
**2 credit hours**  
Health as it relates to the school and community. Three phases of school health education-service, instruction, and healthful school living.
- 2222 Personal Health and Drug Awareness**  
(Spring)  
**2 credit hours**  
Health principles and their applications to the individual, the community, and the schools. Emphasis on drug awareness.
- 2253 Foundations of Physical Education**  
(Fall)  
**3 credit hours**  
Introductory course to the field of health and physical education with study of the development and basic principles upon which the profession of physical education is founded.
- 2281 Tennis\***  
(Fall/Spring)  
**1 credit hour**  
Instruction and practice for beginners.
- 2681 International Dance\***  
**1 credit hour**  
Selected dances of various national groups now in popular use. Square dance included.
- 2691 Intermediate Swimming\***  
(Fall/Spring/Summer)  
**1 credit hour**  
*Prerequisite: HPE 1011 or permission of instructor.* Wide variety of swimming skills.
- 2791 Lifeguard Training**  
(Fall/Spring/Summer)  
**1 credit hour**  
*Prerequisite: HPE 2691 or permission of instructor.* Provides necessary minimum skills training for a person to qualify as a non-surf lifeguard.
- 3072 Fundamentals and Coaching of Strength and Conditioning**  
(Spring)  
**2 credit hours**  
*Prerequisite: Junior standing.* Designed to provide students interested in coaching with experience which will allow them to develop an understanding and basic fundamental skills unique to strength and conditioning. Individual demonstration of skills is required.
- 3123 Advanced Athletic Training**  
**3 credit hours**  
*Prerequisite: HPE 2122 and BIOL 2104 and BIOL 3205.* Evaluation, therapeutic exercise, and modality techniques used by athletic trainers will be studied. Emphasis will be given to rehabilitation techniques and various therapeutic treatments.
- 3162 Evaluations in Physical Education**  
(Spring)  
**2 credit hours**  
*Prerequisite: Junior Standing.* Knowledge and principles in techniques of evaluation, and measurement of physical education.
- 3172 Adaptive and Therapeutic Physical Education**  
(Spring)  
**2 credit hours**  
*Prerequisite: Junior Standing.* Principles and practices of physical education for the physically limited.
- 3263 Kinesiology**  
(Fall)  
**2 credit hours**  
*Prerequisite: BIOL 2104.* Scientific study of mechanical and anatomical fundamentals of human motion.



- 3273 Internship I\*\***  
**(Fall)**  
**3 credit hours**  
*Prerequisite: HPE 2122 and Junior standing.* Practical application and experience in sports and exercise management.
- 3693 Physiology of Exercise**  
**(Spring)**  
**3 credit hours**  
*Prerequisite: HPE 3263.* A study of the physiological principles as applied to muscular activity and the effects of muscular activity on the human organism.
- 4000 Problems in Health and Physical Education**  
**1-3 credit hours**  
 Seminar course covering various topics in HPE.
- 4012 Skills and Techniques of Teaching Team Activities**  
**(Spring)**  
**2 credit hours**  
*Prerequisite: Junior Standing.* Designed for the physical education major to develop personal skills and understandings in selected team activities found in the public school program. Emphasis on teaching skills. Individual demonstration of skills is required.
- 4022 Skills and Techniques of Teaching Individual and Dual Activities**  
**(Fall)**  
**2 credit hours**  
*Prerequisite: Junior Standing.* Designed for the physical education major to develop personal skills and understandings in selected individual and dual activities found in the public school program. Emphasis on the teaching of skills. Individual demonstration of skills is required.
- 4032 Methods and Materials of Teaching Physical Education in Elementary Schools**  
**(Fall)**  
**2 credit hours**  
*Prerequisite: Must be admitted to Teacher Education Program.* Theory and practice of games of low organization, quiet and group games, story plays, and rhythmic activities for the elementary school. Practicum experiences involved.
- 4033 WSI and Lifeguard Training Instructor**  
**3 credit hours**  
*Prerequisite: Current certification in Lifeguard Training.* Meets the American Red Cross standards for Water Safety Instructor as well as Lifeguard Training Instructor. Includes the prerequisite course of Instructor Candidate Training. Successful completion of this course will certify one to teach all Red Cross swimming courses as well as lifeguard training.
- 4042 Methods and Materials of Teaching Physical Education in Secondary**  
**2 credit hours**  
*Prerequisite: Must be admitted in to Teacher Education Program.* Theory and practice of techniques and procedures of teaching physical education in the secondary schools. Practicum experiences involved.
- 4103 Sports Information Management**  
**(Fall)**  
**3 credit hours**  
*Prerequisite: Junior Standing.* Training and practical experience in the collection and use of game statistics. Students will actively participate at home athletic events including football, basketball, volleyball, baseball, and softball.

**4123 Organization and Administration of HPER****(Fall)****3 credit hours**

*Prerequisite:* Junior standing. Problems in physical education; classification of students; organization of programs; class schedules; equipment; records; finance; intramural; construction of gymnasiums, swimming pools, and play areas.

**4272 Practicum in Athletic Training III****2 credit hours**

*Prerequisite:* HPE 2122, HPE 3123, and consent of instructor. Cumulative knowledge and skills will be practiced with the athletes in an athletic training setting. Concentration on rehabilitation skills will be made. Supervised by a certified athletic trainer.

**4273 Internship II\*\*****(Spring)****3 credit hours**

*Prerequisite:* HPE 2122 and Junior standing. Practical application and experience in sports and exercise management.

**4822 Exercise and Fitness Prescription\*\*****(Spring)****2 credit hours**

*Prerequisite:* Junior Standing. Assessing individuals from all demographics and prescribing correct exercise based on individual needs and goals. Emphasis on specific training/exercise for people to achieve the maximum benefit.

\*Activity Class - does not count toward a degree

\*\*Only required for students seeking Sports and Exercise Management degree option

**DRIVER AND SAFETY EDUCATION (HPE)****4000 Problems in Driver Traffic Safety Education****1-3 credit hours**

Study of research in the area of conflict. May also be taken for Driver and Traffic Safety, Mobile Lab Simulator, or CPR.

**4823 Driver and Traffic Safety Education****3 credit hours**

*Prerequisite:* Valid driver's license and a good driving record. Basic methods of teaching and the administration of high school driver and traffic safety education. Required for certification in driver education.

**4853 Methods and Materials in General Safety****3 credit hours**

Principles and practices for reducing accidents in the home, on the farm, in industry, in recreation, in transportation, and at school. Motorcycle riding and safety. Required for certification in driver education.

**4923 Driver and Traffic Safety Education II****3 credit hours**

*Prerequisite:* HPE 4823. Analysis of traffic accidents and causation, attitude factors, essential knowledge of automobile operation, traffic laws and regulations, and classroom instruction in teaching beginning drivers. Required for certification in driver education.

**HISTORY (HIST) +****1003 America and the World****(Offered as Needed)****3 credit hours**

General history of the US including the ways it has affected and has been affected by world events.

**1313 Early U.S. History, 1492-1877****(Fall/Spring)****3 credit hours**

Survey of U.S. history to the end of Reconstruction with emphasis on forces that shaped modern America.

- 1323 Late U.S. History, 1877-Present**  
**(Fall/Spring)**  
**3 credit hours**  
 Survey of U.S. History from the end of Reconstruction to the present day.
- 2000 Special Topics in History**  
**1-3 credit hours**  
 This problems/special topics/independent study course may be offered for 1, 2, or 3 hours of credit and may be repeated with different content for up to 6 hours.
- 2213 Introduction to Early World History \*\***  
**(Fall)**  
**3 credit hours**  
 Survey of the economic, cultural, political, and military aspects of European, Asian, and African history to 1648.
- 2223 Introduction to Late World History \*\***  
**(Fall)**  
**3 credit hours**  
 Survey of the European, Asian, and African development, including relations with each other from 1648 to the present.
- 2313 Historical Methods**  
**3 credit hours**  
*Prerequisite: HIST 1313 or HIST 1323.* Historical methodology and historiography are defined and examined to provide an introduction to students majoring in history. Skills needed for the analysis of history and the ability to do undergraduate-level research are developed. Topics such as how history is presented, learned, researched, and used are considered. This course is intended to develop students' familiarity with the tools and techniques of historical research and writing. Helps history majors prepare for success in upper-division history classes. Explores some general historiography and a slightly deeper exploration of the historiography of a particular topic (based on a research choice). Students will develop an understanding of historical sources and how they are evaluated. Students will also develop an appreciation for how history is used in various cultural contexts.
- 2453 Oklahoma History \*\***  
**(Fall)**  
**3 credit hours**  
 Exploration; settlement by Indians; opening to white settlers; organization of territorial government; statehood; development since statehood.
- 3223 American West Since 1850 \*\***  
**(Fall—even years)**  
**3 credit hours**  
 Mining, ranching, farming frontiers; frontier wars; transportation; emergence of the modern West.
- 3363 Selected Topics in History**  
**(Offered as Needed)**  
**3 credit hours**  
*Prerequisite: Consent of instructor.* Topics are selected by the instructor and published in the schedule of classes. May be repeated for a maximum of nine hours of credit, provided that topics offered for credit vary.
- 3423 American Colonial History \*\***  
**(Spring—odd years)**  
**3 credit hours**  
 History of the political, economic, cultural, and religious aspects of the colonies of North America.

- 3433 Jacksonian Era to the Civil War \*\***  
**(Fall—even years)**  
**3 credit hours**  
 Political and cultural history from 1824 to 1860; the rise and dominance of Jackson and the Jacksonian period; Mexican War; sectional conflicts; background to the Civil War; antebellum culture.
- 3473 U.S. History, 1877-1919 \*\***  
**(Fall—odd years)**  
**3 credit hours**  
 Survey of the rise of the industrialism, politics, agrarian revolt; rise of the US as a world power; Progressivism; World War I.
- 3483 U.S. History, 1919-1945 \*\***  
**(Spring—odd years)**  
**3 credit hours**  
 Early 20th century; Progressivism; the Roaring '20's; Great Depression; World War II.
- 3493 Contemporary U.S. History \*\***  
**1945-Present**  
**(Spring - even years)**  
**3 credit hours**  
 Cold War; Eisenhower years; Kennedy and LBJ; Vietnam ; Nixon; Post 1980 era including terrorism and changes in balance of power.
- 3823 Greek History\*\***  
**(Fall #1)**  
**3 credit hours**  
 Contributions of Greeks to modern times; their society and government. History of Greek Society.
- 3833 Roman History\*\***  
**(Fall #2)**  
**3 credit hours**  
 Roman contributions to civilization, law, and literature. History of the rise and fall of the Roman Empire.
- 3933 Medieval Europe\*\***  
**(Fall #3)**  
**3 credit hours**  
 European civilization from the decline of the Roman Empire to the discovery of the New World; development of European nations; power of the Roman Catholic Church; feudalism.
- 4000 Problems in History**  
**(Offered as Needed)**  
**1-3 credit hours**  
 Problems and/or independent study course in history. May be repeated with different topics/readings.
- 4043 The Era of the American Revolution**  
**(Spring - even years)**  
**3 credit hours**  
 Study of British Imperial problems; immediate causes of war; events of the struggle; social and governmental adjustments.
- 4063 American Federal Period \*\***  
**(Fall - odd years)**  
**3 credit hours**  
 Background to the Constitution; organization of the government; territorial and economic expansion; nationalism; social and cultural development of the new republic.

- 4123 Civil War and Reconstruction \*\***  
**(Fall - even years)**  
**3 credit hours**  
 Slavery and pre-war sectionalism; origins and trials of Civil War; post-war road to reunion.
- 4322 Methods and Management of Teaching Middle and Secondary History**  
**3 credit hours**  
 Admission to the teacher education program. Materials, methods, and classroom procedures as they relate to teaching at the secondary level.
- +4623 Renaissance and Reformation, 1453-1648\*\***  
**(Offered as Needed)**  
**3 credit hours**  
 Broad survey of national, cultural, and intellectual developments; detailed analysis of the Protestant Reformation.
- +4643 Absolutism and Enlightenment, 1648-1789\*\***  
**(Spring #1)**  
**3 credit hours**  
 Study of society, economics, and politics in the age of Louis XIV and the enlightened despots; intellectual revolution in the 17th and 18th centuries.
- +4653 Modern Europe, 1789-1918\*\***  
**(Spring #2)**  
**3 credit hours**  
 Continuation of HIST 4643. Causes of World War I, nationalism, imperialism, militarism, recent alliances.
- +4683 Europe Since 1918\*\***  
**(Spring #3)**  
**3 credit hours**  
*Prerequisite: Six hours of European history.* Treaties resulting from World War I, general economic and political post-war conditions, World War II, post-World War II problems.
- +4910 Readings in History**  
**(Offered as Needed)**  
**1-3 credit hours**  
*Prerequisite: Nine hours of history and consent of instructor.* Readings in selected areas or topics of history. May be repeated with different topics/readings.
- 4942 Teacher's Course in Secondary Social Studies**  
**(Fall)**  
 2 credit hours  
*Prerequisite: Admittance to the Teacher Education Program.* Problems and methods in teaching social studies.

## **HOSPITALITY/TOURISM (HOSP)**

- 1103 Introduction to Tourism and Hospitality Management**  
**3 credit hours**  
 An overview of the structure and scope of the travel/tourism and hospitality industries. This course examines the components of the tourism industry: transportation, accommodation, food and beverage, and attractions. Other topics include the history, political, social, and cultural impacts tourism have on local, state, and global environments. A section of the course is devoted to the State of Oklahoma tourism environment. Students will be required to prepare a career-planning outline. The course includes a study of the history, scope, and innovations in the industry.

**1503 Conventions, Meetings, and Event Planning****3 credit hours**

Course is designed to provide a comprehensive overview and knowledge of the meeting and event industry. Students will gain a firm understanding of how the industry operates and knowledge in the designing, planning, coordinating and executing phases of meetings, conferences, conventions, special events and trade shows. Students will also learn best industry practices and the role of a meeting and event planner. Topics covered include: types of meetings and events; facility types; the role of the planner; setting conference objectives; lodging and transportation issues, site selection negotiations; program design; budgeting; vendor management; speaker selection; creative merchandising; registration; on-site logistics; vendor contracts; staffing; transportation; and security. This course gives students the experience in developing an event, meeting and/or conference program. Students will go through the step-by-step process of pre-planning, budget/agenda preparation, and marketing the event. Other topics include sales, negotiations and contracts. Students will complete a portfolio to include an agenda, floor plan, budget and brochure.

**2103 Restaurant Management****3 credit hours**

*Prerequisite: ACCT 2103.* Course introduces students to roles and standard operating procedures used for food and beverage operations. Emphasis is placed on food preparation techniques, basic purchasing procedures, kitchen and dining equipment, product identification and guest service styles and standards used in various lodging operations. Additionally, methods used by hotel managers to increase food and beverage operational profits through maximizing revenues and controlling costs are explored. This course also teaches students how to ensure a healthy and safe food service operation, covering topics including: HACCP (Hazard Analysis and Critical Control Points), personal hygiene, food contamination, food-borne illnesses and pest management.

**2503 Lodging Management****3 credit hours**

Course is designed to give an overview of the working components of a hotel and their interrelationships. Students will explore in a descriptive fashion the responsibilities of each hotel department and how and why their interactions are important. Students will examine the difference in operations of various types and sizes of hotels from B&B to full service hotels. Students focus on the critical management components and operational procedures of the front-of-the-house including: management of guest expectations, selling guest rooms and services, concierge service skills, rooms forecasting, basic revenue management, teamwork, and interdepartmental relationships.

**2900 Field Experience****1-3 credit hours**

*Prerequisite: HOSP 1103.* Supervised professional-level hospitality and tourism management assignment with a public, private, or governmental organization. May be repeated for a total of 3 hours of credit.

**HUMANITIES (HUM)\*\*/+****1533 Art Appreciation****(Summer/Interterms/Fall/Spring)****3 credit hours**

Comprehensive view of the visual arts from prehistoric times to the present. Introduces the student to the history of art and provides a general cultural background.

**2000 Special Topics in the Humanities****1-3 credit hours**

This problems/special topics/independent study course may be offered for 1, 2, or 3 hours of credit and may be repeated with different content for up to 6 hours.

**2032 Contemporary World Religions****2 credit hours**

Study of some of the major religions of the world with emphasis on their origins, histories, and teachings.

**2113 General Humanities I****(Fall/Spring)****3 credit hours**

An interdisciplinary study of the major artistic, intellectual, and literary accomplishments of Western civilization dating from antiquity to the beginnings of the Renaissance.

**2223 General Humanities II****3 credit hours**

An interdisciplinary study of the major artistic, intellectual, and literary accomplishments of Western civilization from the Renaissance to the present.

- 2333 Philosophy of Life**  
**(Fall)**  
**3 credit hours**  
 Survey of the principal philosophers and philosophical systems which have shaped modern values and ideas.
- 2413 Critical Approaches to Literature**  
**(Fall/Spring)**  
**3 credit hours**  
 Foundation course for the study of literature. Readings/viewings from various literary genres, such as the short story, poetry, novel, drama, and film.
- 2423 Introduction to Theatre**  
**(Fall)**  
**3 credit hours**  
 Introduces students to various aspects of theatre including history, acting, criticism, playwrights, and technical theater. Introduction to new trends in theatre designed to give students a better knowledge and appreciation of theatre.
- 2433 Etiquette**  
**3 credit hours**  
 Examines the history and the practice of etiquette in business, social, and dining environments. Practical experiences/exercises are included in this course nearly daily so that students can practice what they are learning. Resume building, job applications, interviewing, and dining practicums are included in the course.
- 2563 Music in Life**  
**(Fall/Spring)**  
**3 credit hours**  
 Practical course in music adapted to the college student who desires to obtain a better understanding of music as an element in culture and who wishes to become a more discerning music listener.
- 2583 The History of Rock and Roll**  
**3 credit hours**  
 Course examines the development of rock and roll until the beginning of the age of video, 1980. Musical genres include blues and race music, big band, jump, Tin Pan Alley, rockabilly, gospel, pop crooners, country western, and all the derivations of rock and roll in the 1960's and 1970's, such as glitter, metal, beach, dance, disco, glam, country rock, etc.
- 2573 History of Popular Music**  
**3 credit hours**  
 Survey course designed to explore the trends and styles of popular music from the late 19<sup>th</sup> century to the present. Discussions will include trends in jazz, rock, country, and pop.
- 3100 Experiences in the Humanities**  
**(Fall/Spring/ some Summers)**  
**1-4 credit hours**  
 Tours designed to make available first-hand experiences in several aspects of the humanities, including as many as possible from the following list: music, drama, opera, dance, painting, sculpture, crafts, literature, architecture, and/or culture of the Southwest/ five-state area. May be repeated for up to four hours of credit with various topics.
- 4000 Problems in Humanities**  
**1-3 credit hours**  
 Problems and/or independent study course in humanities. May be repeated with varying content.
- 4032 Contemporary Ethical Problems**  
**2 credit hours**  
 Study of ethical problems.
- 4042 Philosophy of Religion**  
**2 credit hours**  
 Religious experience of mankind with special emphasis on Western thought and Christian tradition.

**INDUSTRIAL TECHNOLOGY (INDT)****1000 Basic Electrical Theory****2-3 credit hours**

Electrical theory concepts including voltage, amperage, resistance, Ohm's law wattage, and circuit theory.

**1012 Drafting Technology****(Fall/Spring)****2 credit hours**

Fundamentals of drawing and drafting room practices, procedures and techniques, including sketching and geometric solutions, and including projection, auxiliaries, pictorial representation, and sections.

**1013 Woodworking Fundamentals****(Fall)****3 credit hours**

Fundamental operations of hand tools and common tools and their uses; common woods and methods of finish; screw and glue construction.

**1023 Electrical Schematic and Blueprint Reading****3 credit hours**

The study of electrical schematic symbols for various components, understanding of said symbols and how to read circuit diagrams.

**1032 Engineering Drafting****(Fall)****2 credit hours***Prerequisite: INDT 1012 and 2113.* Advanced study of the fundamentals of drafting including working drawings, intersection, development, rotations, perspective, pipe, electrical, structural steel, gear and cam, and civil engineering drawing.**1100 Industrial Electronics Theory****2-3 credit hours**

Electronic theory and application of electrical components. Transistors, diodes, integrated circuits, associated passive electric components, and interconnection technologies will be covered.

**1103 Applied Electricity Principles****(Fall)****3 credit hour**

Covers electricity principles, including proper use of test equipment, AC and DC circuits, and component theory and operation.

**1113 Exterior Finishing****3 credit hours**

Course includes covering of exterior walls including siding and trim. Materials used may include wood, aluminum, vinyl, brick, stone, and stucco. Additional finish work on the outside of a building may include construction of a porch or deck.

**1123 Introduction to Construction Safety/First Aid****3 credit hours**

Covers personal protective equipment, working habits, good housekeeping, sloping and shoring methods, barricades and guardrails, ramps, runways, fire prevention, and basic first aid.

**1133 Drywall Fundamentals****3 credit hours**

Course includes covering of interior walls and ceilings. Includes the application of gypsum board, plaster, wood paneling, and plastic laminates. Drywall taping, bedding, and texturing will also be covered.

**1153 Introduction to Roofing****3 credit hours**

Construction and installation of shed roofs, gable roofs, hip roofs, and trusses. Includes use of ceiling joists, collar ties and purlins, angle braces, rafter anchors, and roof sheathing.

**1163 Introduction to Cabinet Making****3 credit hours**

Construction and installation of upper and lower kitchen cabinets, bathroom cabinets, bookcases, and shelves. Also includes installation of various countertops for kitchens and bathrooms.



- 1222 General Metals Processing**  
**(Fall)**  
**2 credit hours**  
 Fundamental processes on standard machines such as turning, boring, shaping, milling, and cutting threads.
- 1413 Introduction to Welding**  
**3 credit hours**  
 Basic fundamentals of welding and cutting processes.
- 1423 Welding Equipment and Setup**  
**3 credit hours**  
 Use of different types of welding machines. Students learn to setup GMAW/FCAW equipment, SMAW equipment, GTAW equipment, and plasma arc cutting equipment.
- 1433 Welding Level I**  
**(Fall)**  
**3 credit hours**  
 Principles and practices of welding with practical application.
- 2013 Machine Wood Technology**  
**(Spring)**  
**3 credit hours**  
*Prerequisite: INDT 1013.* Power machinery in the construction of furniture.
- 2023 Motor Control Wiring**  
**3 credit hours**  
 Basic principles of motor control wiring, wiring for motor control, step motor controllers, and wiring three phase motor controllers.
- 2100 Selected Topics in Technology**  
**1-5 credit hours**  
*Prerequisite: Sophomore standing and/or consent of instructor.* Current problems or selected topics in technology. May be repeated for credit.
- 2113 Introduction to Computer Aided Drafting**  
**(Fall/Spring)**  
**3 credit hours**  
*Prerequisite: INDT 1012 or consent of instructor.* Basic course in CAD which includes software (AutoCAD) installation, hard disk management, configuring the CAD system, and basic orthographic drawings.
- 2123 Electromechanical Devices and Applications**  
**3 credit hours**  
 Theory and application of electromechanical devices such as synchronous motors, stepper motors, solenoids, valve actuators, servo motors, relays, thermostats, and heating and cooling controllers.
- 2203 DC/AC Circuits**  
**(Spring)**  
**3 credit hours**  
*Prerequisite: INDT 1103 Applied Electricity Principles.* Fundamentals of DC circuits and AC circuits operation including Ohm's laws, Kirchhoff's law, networks, transformers, resonance, phasors, capacitive, inductive, and circuit analysis technique.
- 2213 Metal Characteristics and Preparation**  
**3 credit hours**  
 Characteristics of different types of metals, their properties, metal preparation, and heat treatments.
- 2223 Introduction to Computer Numerical Control Machinery**  
**(Spring—even years)**  
**3 credit hours**  
*Prerequisite: INDT 1222 or consent of instructor.* Basic course in computer numerical control machinery; study of the concepts and programming of computer numerical control machinery.

**2233 Fundamentals of Robotics**  
**(Spring - even years)**  
**3 credit hours**

*Prerequisite:* INDT 2113 or consent of instructor. Basic course in robotics. Study of the robot's mechanical components, power systems, sensors, programming, and interfacing. Safety and robotics application to flexible manufacturing systems.

**2243 Instrumentation and Control**  
**3 credit hours**

Basic theory, application, and wiring of instrumentation and control panels.

**2313 Workforce Management**  
**3 credit hours**

Covers day-to-day oversight of a construction site, management of vendors and trades, and communication of information to all parties throughout the course of a building project. Includes providing correct material, labor, equipment, and services necessary for construction of a project.

**2323 Core Construction Principles**  
**3 credit hours**

Covers types of construction, building trades, manufacture of lumber and measurement of lumber, wood panel systems, tools used in construction, construction machinery, safety, and job-site working conditions.

**2333 Metal Framing**  
**3 credit hours**

Covers use of metal framing systems in residential and other light construction. Includes use of metal for floor joists, ceiling joists, studs, bottom plates, and top plates.

**2343 Professional Flooring**  
**3 credit hours**

Course includes covering sub-floors or slab, application of hardwood floors, ceramic tile, carpet, and linoleum.

**2353 Wall and Ceiling Framing**  
**3 credit hours**

Covers construction of exterior and interior walls. Includes construction of outside corners, headers, cripples, door and window openings, and correct method of erecting walls. Also includes cutting and placing of ceiling joists and rafters.

**2413 Pipe Weld Joints and Preparation**  
**3 credit hours**

Layout, cutting, fit-up, alignment, and preparation of mitering joints, saddling joints, and branching pipe joints of various sizes and material for welds.

**2423 Welding Level II**  
**3 credit hours**

*Prerequisite:* INDT 1433 or AGME 1433. Provides technical training and skills needed to receive a welding certificate. Course covers the following areas: welding symbols, reading of welding detailed drawings, physical characteristics and mechanical properties of metal, preheating and postheating of metals, GMAW and FCAW equipment and filler metals, GMAW plate welds, FCAW Plate welds, GTAW equipment and filler metals, and GTAW plate welds.

**2623 Reading Welding Blueprints**  
**3 credit hours**

Reading of blueprints and understanding welding symbols used in the welding industry.

**2633 Low Alloy and Stainless Steel Welding**  
**3 credit hours**

Covers GTAW welding of low alloy and stainless steel plate and pipe.

**2663 Introduction to Hydraulics and Pneumatics**  
**3 credit hours**

Introductory course covering hydraulic and pneumatic systems, fluid power symbols, operating theory, components, and basic electrical and mechanical controls.

- 3022 Wood Turning**  
**(Spring—odd years)**  
**2 credit hours**  
*Prerequisite: INDT 2013.* Principles of cylinder turning; chuck and faceplate problems.
- 3123 Advanced Computer Aided Drafting**  
**(Fall)**  
**3 credit hours**  
*Prerequisite: INDT 2113 or consent of instructor.* Continuation of introduction to CAD with emphasis on evaluation of machine drawings, architectural drawings, and pictorial drawings as to their CAD possibilities. Customizing CAD menus will be taught.
- 3303 Programmable Logic Controllers**  
**(Spring)**  
**3 credit hours**  
*Prerequisite: INDT 1103 Applied Electricity Principles.* An introduction to programmable logic controllers as used in industrial environment including basic concept, programming, applications, troubleshooting of ladder logic, and interfacing of equipment.
- 3323 Welding Level III**  
**(Spring)**  
**3 credit hours**  
*Prerequisite: INDT 1432 or consent of instructor.* Principles of welding with practical application.
- 3413 Foundry and Forge Manufacturing Processes**  
**(Fall—odd years)**  
**3 credit hours**  
*Prerequisite: Four credit hours of metals.* Foundry and forging fundamentals. Basic principles and techniques in producing manufactured products by foundry and forging methods. Making simple patterns, molds, and cores; working with sand, environment; casting with low temperature metals. The study of elementary forge practice and heat treatment of metals.
- 3423 Machine Drawing and Design**  
**(Spring—odd years)**  
**3 credit hours**  
*Prerequisite: INDT 1032 or consent of instructor.* Methods of designing and drawing machines and machine parts. Designing and application of linkage, cams, gears, screws, springs, keys, fasteners, and threads. Use of symbols in drawings and parts lists. Conventional and CAD drafting techniques.
- 3433 Advanced Wood Turning**  
**3 credit hours**  
*Prerequisite: INDT 3022.* More complex problems such as nut bowls, lamps, etc.
- 3633 Furniture and Cabinet Construction**  
**(Fall)**  
**3 credit hours**  
*Prerequisite: INDT 2013 and/or consent of instructor.* Making of more complex pieces of furniture such as china cabinet, dresser, etc.
- 3643 Power Mechanics I**  
**(Fall/Spring)**  
**3 credit hours**  
 Basic course in mechanics and physics of the automobile. Principles and fundamentals of the gasoline engine, electrical system, ignition, hydraulics, fuels, lubrications as applied to the automobile. Introduction to the practical use of tools and equipment made in the laboratory.
- 3653 Power Mechanics II**  
**(Spring - odd years)**  
**3 credit hours**  
*Prerequisite: INDT 3643.* Basic principles of automotive mechanics. Advanced study in rebuilding procedures for automotive engines, drive train, and transmissions.

**3663    Hydraulics and Pneumatics  
(Fall)**

Basic fluid power course covering pneumatic and hydraulic systems, fluid power symbols, operating theory, components, and basic electrical and manual controls.

**3781    Art Leatherwork  
1 credit hour**

Selection of projects, designs, and development of tooling and carving techniques of craft projects made of leather.

**3911    Plastic  
1 credit hour**

*Prerequisite: INDT 2013 or consent of the instructor.* Plastic; plastic carving; project selection and design; molding and forming plastics.

**3923    Architectural Drafting  
(Spring—odd years)  
3 credit hours**

*Prerequisite: INDT 1012.* Study of home architecture requiring drawing of a floor plan, plot, mechanical, electrical, detail, and elevation plan of drawings of a home. Each room (living, kitchen, dining, family, bedrooms, bath, utility, garage), roof, foundation, and wall detail as a model of the home. Conventional and CAD drafting techniques.

**4021    Industrial Technology Organization and Management  
(Fall/Spring)  
1 credit hour**

Organization and management of industrial technology. May be repeated for credit.

**4022    Engineering Design Concepts  
(Spring—even years)  
2 credit hours**

*Prerequisite: INDT 1032 or consent of instructor.* Theory and application of the design process in aerospace design, structural design, and mechanical design. A model will be designed, constructed, and tested for each design area.

**4032    Machine Tool Practice  
(Spring—even years)  
2 credit hours**

*Prerequisite: INDT 1222.* Emphasis on more advanced operations, particularly those performed on the milling machine and other special equipment.

**4100    Selected Topics in Industrial Technology  
1-3 credit hour**

*Prerequisite: Senior standing and/or consent of instructor.* Current problems or selected topics in industrial technology. May be repeated for credit.

**4122    Building and Construction Techniques  
(Spring—odd years)  
2 credit hours**

Elements of frame building construction; methods and practice in cutting rafters as used in residential construction.

**4213    Finishing and Surface Treatment  
(Spring—even years)  
3 credit hours**

*Prerequisite: Six hours of woodworking.* Cabinet woods and types of finishing.

**4242    Programming Computer Aided Drafting  
2 credit hours**

*Prerequisite: INDT 2113 or consent of instructor.* Basics of AutoLISP. AutoLISP will give an AutoCAD operator the ability to write customized programs to control virtually every aspect of a drawing and its database.

**4513 Care and Installation of Industrial Equipment**  
**(Spring)**  
**3 credit hours**

*Prerequisite:* INDT 2013. Care of tools and machinery used in industrial technology.

**4623 Welding Level IV**  
**(Fall—even years)**  
**3 credit hours**

*Prerequisite:* INDT 1432 and INDT 3322. Practice in both arc and acetylene welding to develop skills after fundamentals have been learned, with emphasis on Mig and Tig welding. Includes welding aluminum and stainless steel.

**4833 Industrial Woodworking Processes**  
**(Spring)**  
**3 credit hours**

Continuation of INDT 3633.

## **JOURNALISM (JB)**

**1011 Journalism Practicum**  
**(Fall/Spring)**  
**1 credit hour**

Experience in news writing, layout, and composition as related to publication of the student newspaper. May be repeated up to three times.

## **MANAGEMENT (MGMT)**

See Business Management.

## **MARKETING (MKTG)**

See Business Marketing.

## **MATHEMATICS (MATH)**

**0023 Pre-Algebra**  
**(Fall/Spring/ Summer as needed)**  
**3 hours**

A rigorous review of number systems and the addition, subtraction, multiplication, and division of numbers including fractions and decimals; an introduction to variables, basic algebraic expressions, and the solution of simple linear equations and variables. Required of students who are academically unprepared for college-level mathematics. Course will not fulfill any graduation requirements. Grade of *C* is minimum for passing.

**0123 Intermediate Algebra**  
**(Fall/Spring/Summer as needed)**  
**3 hours**

*Prerequisite:* MATH 0023 or placement testing. Basic concepts and applications from the following topics: logic, sets, probability, statistics, finance, and geometry. Course will not fulfil any graduation requirements. Grade of *C* is minimum for passing.

**0124 Elements of Algebra**  
**4 hours**

Provides mathematics instruction for students who require extensive preparation to succeed in college-level mathematics courses. Students will be placed into this course based on ACT score, the student's GPA for math curriculum in high school, and a self-evaluation interview which will take into consideration the student's high school attendance record.

**+1473 Quantitative Reasoning**  
**(Fall/Spring/Summer)**  
**3 credit hours**

*Prerequisite:* Minimum ACT Mathematics subscore of 19 or equivalent or MATH 0123. General education mathematics course for majors not requiring MATH 1513: College Algebra. Basic concepts and applications from the following topics: logic, sets, probability, statistics, finance, and geometry.

**+1475 Quantitative Reasoning Plus****5 credit hours**

*Prerequisite:* ACT Mathematics subscore of 19 or higher. Students having lower than 19 on the ACT will be placed based on multiple evaluation criteria. A corequisite model, credit-bearing, general education mathematics course that may be substituted for Math 1473 Quantitative Reasoning. This course is for majors not requiring Math 1513 College Algebra or Math 1523 Modeling and Basic Statistics. Topics include concepts and applications of logic, sets, probability, statistics, finance, and geometry.

**+1511 Statistics Preparation****3 credit hours**

*Prerequisite:* MATH 1513. Course is designed to prepare students who have taken MATH 1513 “College Algebra” for their major-area, upper level statistics course. Topics include an introduction to basic statistical concepts such as organizing and picturing data and measures of average, variation, and position.

**+1513 College Algebra  
(Fall/Spring/Summer)****3 credit hours**

*Prerequisite:* Minimum ACT Mathematics subscore of 19 or equivalent or MATH 0123. Equations, functions, graphing, inequalities, absolute value, solving linear systems, matrix methods, theory of equations, exponential and logarithmic functions.

**+1515 College Algebra Plus****5 credit hours**

*Prerequisite:* ACT Mathematics subscore of 19 or higher. Students having lower than 19 on the ACT will be placed based on multiple evaluation criteria. A corequisite model, credit-bearing, general education mathematics course that may be substituted for Math 1513 College Algebra. This course is designed to prepare STEM majors who intend to take the calculus sequence. Topics include algebraically solving equations and inequalities including but not limited to: polynomial, logarithmic, exponential, rational, radical, and absolute value; performing operations on functions and identifying the properties and characteristics of functions, including but not limited to: domain and range, one-to-one, inverse, increasing and decreasing, and asymptotic behavior; identifying and constructing graphs and applying their transformations, including but not limited to: basic graphs, polynomial, rational and piecewise; applying algebraic concepts to real world problems.

**+1523 Modeling and Basic Statistics  
(Fall/Spring)****3 credit hours**

*Prerequisite:* Minimum ACT Mathematics subscore of 19 or equivalent or UCMA 0123. Study of quantitative reasoning skills considered necessary for majors in business, social science, education, and agriculture. Topics include algebraic fundamentals, functions, and modeling (linear, quadratic, exponential); solving linear and quadratic equations and their applications; systems of linear equations and linear programming; ratio, proportion, variation, percent, and dimensional analysis; simple and compound interest; and an introduction to basic statistical concepts such as organizing and picturing data and measures of average, variation, and position.

**+1525 Modeling and Basic Statistics Plus****5 credit hours**

*Prerequisite:* ACT Mathematics subscore of 19 or higher. Students having lower than 19 on the ACT will be placed based on multiple evaluation criteria. A corequisite model, credit-bearing, general education mathematics course that may be substituted for Math 1523 Modeling and Basic Statistics. This course is designed to aid in the study of quantitative reasoning skills considered necessary for majors in business, social science, education, and agriculture. Topics include algebraic fundamentals, functions, and modeling (linear, quadratic, exponential); solving linear and quadratic equations and their applications; systems of linear equations and linear programming; ratio, proportion, variation, percent, and dimensional analysis; simple and compound interest; and an introduction to basic statistical concepts such as organizing and picturing data and measures of average, variation, and position.

**+1611 Calculus Preparation****3 credit hours**

*Prerequisite:* MATH 1523. Course is designed to prepare students who have taken MATH 1523 “Modeling and Basic Statistics” for calculus. Topics include solving higher-order polynomial, radical, and absolute value equations; analyzing and graphing functions including, but not limited to polynomial, radical, absolute value, rational, piecewise-defined, exponential, and logarithmic.

**+1613 Plane Trigonometry****(Spring)****3 credit hours**

*Prerequisite:* MATH 1513. Properties of triangles and trigonometric functions and their applications. Topics include trigonometric functions, identities, graphs, inverses, and laws.

- +1713 Basic Geometry**  
**(Offered as needed)**  
**3 credit hours**  
*Corequisite: MATH 1513.* A thorough review of lines, angles, triangles, polygons, and circles, geometric theorems and proofs, measurements of two-dimensional geometrical shapes including perimeter and area, three-dimensional geometrical solids, conic sections, and measurements of three-dimensional solids including surface area and volume.
- +1715 College Algebra and Trigonometry**  
**(Fall)**  
**5 credit hours**  
*Prerequisite: Minimum ACT Mathematics subscore of 19 or equivalent or UCMA 0123.* A combined course of MATH 1513 and MATH 1613. Topics include equations and inequalities; graphing; polynomial, rational, exponential, and logarithmic functions; trigonometric functions of angles and real numbers; and analytic trigonometry.
- +1813 Analytic Geometry**  
**(Offered as needed)**  
**3 credit hours**  
*Prerequisite: MATH 1513 and co-requisite MATH 1613.* Geometric properties by means of algebraic operations. Topics include fundamental concepts, linear equations, circles, conic sections, translation, and rotation of axes, polar coordinates, lines, and planes in space.
- +1824 Calculus I**  
**(Spring)**  
**4 credit hours**  
*Prerequisite: MATH 1513 and MATH 1613 or MATH 1715. All prerequisite work must have a grade of "C" or better.* Extends elementary mathematics to a more general setting using the limiting process. Includes geometric, algebraic, and trigonometric topics. Review of algebra and functions and the presentation of the limiting process, differentiation, and integration.
- +2213 Structural Concepts/Primary Level**  
**(Fall, Summers-even years)**  
**3 credit hours**  
*Prerequisite: MATH 1513 or 1473 and admission into the Teacher Education Program or consent of instructor.* Mathematics for grades K through 4 including teaching strategies. Topics include problem solving, estimation, numeration, whole number operations, computation, measurement, geometry, fractions, and decimals.
- +2223 Structural Concepts/ Intermediate Level**  
**(Spring, Summers—odd years)**  
**3 credit hours**  
*Prerequisite: MATH 2213.* Continuation of MATH 2213: Structure of number systems, informal geometry, probability, and statistics. For elementary teachers.
- +2424 Calculus II**  
**(Fall)**  
**4 credit hours**  
*Prerequisite: MATH 1824 with grade of "C" or better or consent of instructor.* Continuation in the study of calculus. Topics include applications of integration, analysis of logarithmic and exponential functions, analysis of inverse trigonometric and hyperbolic functions, techniques of integration, improper integrals, L'Hopital's rule, and infinite series.
- +2434 Calculus III**  
**(Spring)**  
**4 credit hours**  
*Prerequisite: MATH 2424 with a grade of "C" or better or consent of instructor.* Further study of calculus, including vectors, three-dimensional space, vector-valued functions, partial derivatives, multiple integration, and vector calculus.
- +3333 Linear Algebra**  
**(Fall - as needed)**  
**3 credit hours**  
*Prerequisite/Corequisite: MATH 1824 with a grade of "C" or better or consent of instructor.* Study of the generalization of the properties of straight lines. Topics include linear equations, matrices, determinants, vectors, vector spaces, linear transformations, eigenvalues, and eigenvectors.

**+3443 Discrete Mathematics**  
**(Spring - as needed)**  
**3 credit hours**

*Prerequisite: MATH 1824 with a grade of "C" or better or consent of instructor.* Relations between set theoretic operations and computer operations, applications of graph theory, graphical algorithms, discrete algebraic structures.

**+3513 Foundations of Mathematics**  
**(Fall)**  
**3 credit hours**

*Prerequisite: MATH 1824 with a grade of "C" or better or consent of instructor.* Introduction to advanced mathematics. Topics include logic, set theory, methods of proof, relations, functions, operations, and construction of the natural, integer, rational, and real numbers.

**+3663 Topology**  
**(Spring - as needed)**  
**3 credit hours**

*Prerequisite: MATH 3513 with a grade of "C" or better or consent of instructor.* Study of generalized sets and functions. Topics include set theory, logic, topological spaces, closed sets, limit points, connected spaces, compact spaces, countability axioms, separation axioms and the theorems of Urysohn, Tietze, Tychonoff, Stone-Cech, and Nagata Smirnov. Recommended for anyone taking MATH 4123 or MATH 4453.

**+3713 College Geometry**  
**(Fall - as Needed)**  
**3 credit hours**

*Prerequisites: MATH 3513 with a "C" or better or consent of instructor.* A development of the essentials of Euclidean geometry and an introduction to non-Euclidean geometry. Topics include the foundations of Euclidean geometry (points, lines, angles, triangles, quadrilaterals, circles), parallelism in Euclidean geometry, transformations and isometries, and parallelism in non-Euclidean geometry (with a focus on hyperbolic geometry).

**+4000 Problems in Mathematics**  
**(Offered as needed)**  
**1-3 credit hours**

*Prerequisite: Consent of instructor.* Problems and/or independent study course in mathematics.

**+4073 Numerical Analysis**  
**(Fall - as needed)**  
**3 credit hours**

*Prerequisite: MATH 2424, Math 3333, and CIS 3613.* Solution of nonlinear equations, interpolation of polynomials, numerical differentiation and integration, numerical solution of ordinary differential equations.

**+4123 Complex Variables**  
**(Spring - as needed)**  
**3 credit hours**

*Prerequisite: MATH 3513 and MATH 2434 with a grade of "C" or better or consent of instructor.* A review of complex number systems and operations with complex numbers and a thorough introduction to complex variables, complex functions, limits and continuity of complex functions, differentiation and integration of complex functions, complex sequences and series, differential equations in the complex plane, residue calculus, and the geometry of complex functions.

**4222 Teaching of Mathematics**  
**(Fall)**  
**2 credit hours**

*Prerequisite: Admission in to the Teacher Education Program or consent of instructor.* Provides familiarization with the goals and techniques of teaching mathematics, current research on mathematics education, and materials associated with teaching mathematics at the secondary level. This course is designed to be taken the semester before student teaching.

**4322 Methods and Materials of Teaching Middle and Secondary Math**  
**3 credit hours**

*Prerequisite: Admission to the Teacher Education Program.* Materials, methods, and classroom procedures related to teaching at the secondary level.



- +4323 Modern Algebra**  
**(Spring - as needed)**  
**3 credit hours**  
*Prerequisite: MATH 3513 with a grade of "C" or better or consent of instructor.* Introduction to the basic ideas of abstract algebra including equivalence, congruence, groups, isomorphisms, rings, integral domains, and fields.
- +4413 Ordinary Differential Equations**  
**(Fall - as needed)**  
**3 credit hours**  
*Prerequisite: MATH 2434 with a grade of "C" or better or consent of instructor.* Ordinary differential equations of the first and second order with applications to geometry and physics.
- +4423 Partial Differential Equations**  
**(Spring - as needed)**  
**3 credit hours**  
*Prerequisite: MATH 4413 with a grade of "C" or better, or consent of instructor.* Classification of partial differential equations, boundary value problems, initial value problems, eigenvalue problems, and solution methods, formulation of difference equations, and numerical techniques.
- +4453 Introduction to Real Analysis**  
**(Fall - as needed)**  
**3 credit hours**  
*Prerequisite: MATH 3513 with a grade of "C" or better, or consent of instructor.* Introduction to theoretical calculus, real numbers, topology of Cartesian spaces, convergence, continuity, differentiation, and integration.
- +4763 Probability and Statistics**  
**(Fall)**  
**3 credit hours**  
*Prerequisite/Corequisite: MATH 2434 with a grade of "C" or better or consent of instructor.* Introduction to statistical analysis including populations, samples, descriptive statistics, regression, correlation, probability, discrete and continuous distributions, sampling methods, estimation, hypothesis testing, and analysis of variance.

## **MEDICAL TECHNOLOGY (MEDT)**

- +4117 Clinical Microbiology**  
**7 credit hours**  
 Theory and laboratory study of pathogenic bacteria, viruses, rickettsiae, fungi, and parasites. Includes isolation, identification, antimicrobial susceptibility testing, and medical significance.
- +4125 Clinical Chemistry I**  
**5 credit hours**  
 Theory and laboratory methodology of analytical biochemistry, clinical microscopy, routine, and special procedures, and medical significance.
- +4236 Clinical Hematology**  
**6 credit hours**  
 Systematized study of disease and abnormal derivations, maturation and function, principles of hemostasis; methodology used in routine and special hematology studies; and correlation of hematological findings with physiological conditions.
- +4246 Clinical Immunology**  
**6 credit hours**  
 Theory of immunologic responses and procedures used in serological determinations; study of immunohematology, fundamentals of antigen-antibody reactions; blood groups and types, compatibility testing, blood components, and lab methods used as related to the medical significance of immunology and infectious diseases.
- +4325 Clinical Chemistry II**  
**5 credit hours**  
 Theory and laboratory methodology of analytical biochemistry, instrumentation, lab mathematics, routine, and special procedures and medical significance.

**+4351 Topics in Medical Technology****1 credit hour**

Principles and practices of the medical laboratory including basic management, special education methodology, and special projects in selected areas.

**MUSIC - PRIVATE LESSONS (MUPI)****1000 Applied Music for Non-Majors****1-3 credit hours**

*Prerequisite:* Pass music fundamentals exam or enroll in MUSI 1513 "Music Fundamentals." Private applied instruction in keyboard, voice strings, woodwind, brass, or percussion instruments for students not pursuing a music major or minor.

**1010 Strings: Lower Division****1-4 credit hours**

*Prerequisite:* Pass music fundamentals exam or enroll in MUSI 1513. First through fourth semesters of private instruction in orchestral string instruments for students pursuing a music major or minor.

**1110 Voice: Lower Division****1-4 credit hours**

*Prerequisite:* Pass music fundamentals exam or enroll in MUSI 1513. First through fourth semesters of private instruction in voice for students pursuing a music major or minor.

**1210 Keyboard: Lower Division****1-4 credit hours**

*Prerequisite:* Pass music fundamentals exam or enroll in MUSI 1513. First through fourth semesters of private instruction in keyboard instruments for students pursuing a music major or minor.

**1310 Brass: Lower Division****1-4 credit hours**

*Prerequisite:* Pass music fundamentals exam or enroll in MUSI 1513. First through fourth semesters of private instruction in brass instruments for students pursuing a music major or minor.

**1410 Woodwind: Lower Division****1-4 credit hours**

*Prerequisite:* Pass music fundamentals exam or enroll in MUSI 1513. First through fourth semesters of private instruction in woodwind instruments for students pursuing a music major or minor.

**1510 Percussion: Lower Division****1-4 credit hours**

*Prerequisite:* Pass music fundamentals exam or enroll in MUSI 1513. First through fourth semesters of private instruction in percussion instruments for students pursuing a music major or minor.

**1610 Guitar: Lower Division****1-4 credit hours**

*Prerequisite:* Pass music fundamentals exam or enroll in MUSI 1513. First through fourth semesters of private instruction in guitar for students pursuing a music major or minor.

**1710 Composition: Lower Division****1-4 credit hours**

*Prerequisite:* Pass music fundamentals exam or enroll in MUSI 1513. *Prerequisite:* Musi 3723 or permission of instructor. Lower-division private lessons in music composition.

**3050 Strings: Upper Division****1-4 credit hours**

*Prerequisite:* Junior standing in the music program and pass a barrier exam. Fifth through eighth semesters of private instruction in orchestral string instruments.

**3150 Voice: Upper Division****1-4 credit hours**

*Prerequisite:* Junior standing in the music program and pass a barrier exam. Fifth through eighth semesters of private instruction in voice.

- 3250 Keyboard: Upper Division**  
**1-4 credit hours**  
*Prerequisite:* Junior standing in the music program and pass a barrier exam. Fifth through eighth semesters of private instruction in keyboard instruments.
- 3350 Brass: Upper Division**  
**1-4 credit hours**  
*Prerequisite:* Junior standing in the music program and pass a barrier exam. Fifth through eighth semesters of private instruction in brass instruments.
- 3450 Woodwind: Upper Division**  
**1-4 credit hours**  
*Prerequisite:* Junior standing in the music program and pass a barrier exam. Fifth through eighth semesters of private instruction in woodwind instruments.
- 3510 Percussion: Upper Division**  
**1-4 credit hours**  
*Prerequisite:* Junior standing in the music program and pass a barrier exam. Fifth through eighth semesters of private instruction in percussion instruments.
- 3650 Guitar: Upper Division**  
**1-4 credit hours**  
*Prerequisite:* Junior standing in the music program and pass a barrier exam. Fifth through eighth semesters of private instruction in guitar.
- 3750 Composition: Upper Division**  
*Prerequisite:* Junior standing in the music program and pass a barrier exam. Upper division private lessons in music composition.
- 3991 Junior Recital**  
**1 credit hour**  
*Prerequisite:* Junior standing in the music program with five successful semesters of applied study. Preparation and performance of a recital program. Length of recital to be approximately thirty minutes (determined in conjunction with applied teacher). Repertoire and memorization requirements determined by the applied teacher in accordance with departmental guidelines.
- 4981 Senior Recital (Composition)**  
**1 credit hour**  
*Prerequisite:* Senior standing in the music program with seven successful semesters of applied study, including three semesters of MUPI 3750. *Corequisite:* MUPI 3750. Preparation and performance of a recital program. Length of recital approximately 50 minutes, with repertoire to be drawn from student's original compositions.
- 4991 Senior Recital**  
**1 credit hour**  
*Prerequisite:* Senior standing in the music program with seven successful semesters of applied study, including three semesters of applied study, including three semesters of MUPI 3x50 on the instrument or voice to be used in the recital. *Corequisite course:* MUPI 3x50 (Upper Division Private Music Instruction) for the instrument or voice to be used in the recital. Preparation and performance of a recital program. Length of recital to be approximately 50 minutes (determined in conjunction with applied teacher). Repertoire and memorization requirements determined by the applied teacher in accordance with departmental guidelines.

## APPLIED MUSIC (MUAP)

- 1011 Class Guitar I**  
**1 credit hour**  
*Prerequisite (non-majors):* Pass music fundamentals exam or enroll in MUSI 1513. Class instruction in guitar for beginners.
- 1021 Class Guitar II**  
**1 credit hour**  
*Prerequisite (non-majors):* Pass music fundamentals exam or enroll in MUSI 1513. *Prerequisite:* MUAP 1011 or consent of instructor. Continuation of MUAP 1011.
- 1031 Class Guitar III**  
**1 credit hour**  
*Prerequisite (non-majors):* Pass music fundamentals exam or enroll in MUSI 1513. *Prerequisite:* MUAP 1021 or consent of instructor. Continuation of MUAP 1021.

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### 1112 Class Piano I

#### 2 credit hours

*Prerequisite (non-majors):* Pass music fundamentals exam or enroll in MUSI 1513. Class instruction in keyboard for beginners and music students seeking preparatory work for keyboard proficiency.

### 1122 Class Piano II

#### 2 credit hours

*Prerequisite (non-majors):* Pass music fundamentals exam or enroll in MUSI 1513. *Prerequisite:* MUAP 1111 or consent of instructor. Continuation of MUAP 1112.

### 1132 Class Piano III

#### 2 credit hours

*Prerequisite (non-majors):* Pass music fundamentals exam or enroll in MUSI 1513. *Prerequisite:* MUAP 1121 or consent of instructor. Continuation of MUAP 1121.

### 1142 Class Piano IV

*Prerequisite (non-majors):* Pass music fundamentals exam or enroll in MUSI 1513. *Prerequisite:* MUAP 1132 or consent of instructor. Continuation of MUAP 1132

### 1211 Class Voice

#### 1 credit hour

*Prerequisite (non-majors):* Pass music fundamentals exam or enroll in MUSI 1513. Beginning voice class for all students. Recommended before beginning private vocal study.

## PERFORMING ENSEMBLES (MUPE)

**Enrolled students must participate in outside concert performances or else their course grade may suffer.**

### 1111 Marching Band

#### 1 credit hour

Marching band performs at all home football games and various parades throughout the fall semester. Membership is open to all students, but performance privileges are earned through audition and chair tests throughout the semester.

### 1121 Athletic Band

#### 1 credit hour

Ensemble of wind and percussion instruments for all students with a least two years' experience in high school band or private music study. Performs at all home football and basketball games and other athletic- and school-related events during the school year on wind and percussion instruments.

### 1211 Concert Band

#### 1 credit hour

The concert band explores music for symphonic band and wind ensembles. Membership is open to all students with at least two years high school playing experience.

### 1311 Jazz Band

#### 1 credit hour

Jazz band explores jazz, swing, funk, rock, and pop musical genres for the stage band. Enrollment may be limited based on instrumentation. Provides accompaniment for musical theater productions and performs at other campus and community events.

### 1411 Concert Choir

#### 1 credit hour

The concert choir performs choral works, both accompanied and *a cappella*, from various musical styles. Membership is open to all students and community members.

### 1511 Mariachi Band

#### 1 credit hour

A music ensemble dedicated to the study and performance of mariachi music as well as music from other Hispanic cultures. Ensemble performs throughout the year at various functions on campus and in the community. Enrollment is open to all students.

### 1611 Piano Accompanying

#### 1 credit hour

Instruction and practical experience in the technique and art of musical collaboration on the piano. Focus will be given to sight reading, learning parts, balance, breathing, phrasing, listening, and efficient rehearsal techniques.

- 2111     Woodwind Ensemble**  
**1 credit hour**  
 Performance of chamber literature designed specifically for woodwind instruments.
- 2211     Brass Ensemble**  
**1 credit hour**  
 Performance of chamber literature designed specifically for brass instruments.
- 2311     Percussion Ensemble**  
**1 credit hour**  
 Performance of chamber literature designed specifically for percussion instruments.
- 2411     String Ensemble**  
**1 credit hour**  
 Performance of chamber literature designed specifically for orchestral stringed instruments.
- 2711     Musical Theater Production**  
**1 credit hour**  
 Preparation and performance of a musical theater production. Enrollment open to all students. Roles assigned by audition. Non-actors will be assigned to various tasks in set design and construction and theater support, such as wardrobe, lighting, props, sound, etc.
- 3111     Chamber Singers**  
**1 credit hour**  
*Corequisite: MUPE 1411.* Membership by audition only. Chamber Singers explores advanced music for small choral ensembles from various styles and periods.
- 4001     Choral Ensemble**  
**1 credit hour**  
 Ensemble course to meet the needs of advanced students in choral ensemble work. Enrollment by audition.
- 4101     Instrumental Ensemble**  
**1 credit hour**  
 Ensemble course to meet the needs of advanced students in instrumental ensemble work. Enrollment by audition.

## **THEORY AND HISTORY (MUSI)**

- 1000     Special Topics in Music**  
**(Offered as Needed)**  
**1-3 credit hours**  
 Special topics of interest to music majors and non-music majors alike. Music reading skills will be helpful but not required, and student assessment will focus on alternative methods. May be repeated with variable content for a maximum total of three hours.
- +1513     Music Fundamentals**  
**(Summers)**  
**3 credit hours**  
 Introductory course in the materials and methods of music: note and rest duration and symbology, staff function, clef function (treble, bass, alto, and tenor), major and minor scale construction and nomenclature, key signatures, interval qualities, and triadic chord construction.
- +1521     Theory of Music I (Lab)**  
**(Fall)**  
**1 credit hour**  
*Prerequisite: MUSI 1513 or placement examination. Corequisite: Enrollment in MUSI 1523.* Sight-singing, ear-training, and keyboard laboratory component for MUSI 1523.
- +1523     Theory of Music I**  
**(Fall)**  
**3 credit hours**  
*Prerequisite: Pass music fundamentals exam or enroll in MUSI 1513. Corequisite: Enrollment in MUSI 1521.* Required course for music majors. Open to non-music majors. A study of the basic materials of music through music analysis, composition, and associated skills.

**+1531 Theory of Music II (Lab)**  
**(Spring)**

**1 credit hour**

*Prerequisite:* MUSI 1521 and MUSI 1523 or placement examination. *Corequisite:* Enrollment in MUSI 1533. Sight-singing, ear training, and keyboard laboratory component for MUSI 1533.

**+1533 Theory of Music II**  
**(Spring)**

**3 credit hours**

*Corequisite:* Enrollment in MUSI 1531. *Prerequisite:* MUSI 1521 and MUSI 1523 or placement examination. Required course for music majors. Open to non-music majors. A continuation of the concepts established in Theory of Music I, covering traditional diatonic practice with an expansion of harmonic vocabulary.

**+2412 Ethnomusicology\*\***  
**(Spring - odd years)**

**2 credit hours**

Survey of music cultures of many different ethnic groups across the world; will include both historical and modern information regarding selected ethnicities. May fulfill General Education electives for humanities or liberal arts and sciences.

**2541 Theory of Music III (Lab)**  
**(Fall)**

**1 credit hour**

*Prerequisite:* MUSI 1531 and MUSI 1533 or placement examination. *Corequisite:* Enrollment in MUSI 2543. Sight-singing, ear-training, and keyboard laboratory component for MUSI 2543.

**+2543 Theory of Music III**  
**(Fall)**

**3 credit hours**

*Prerequisite:* MUSI 1531 and MUSI 1533 or placement examination. *Corequisite:* Enrollment in MUSI 2541. Continuation of MUSI 1533. Analysis of representative works from the 19th century through the Impressionists.

**2551 Theory of Music IV (Lab)**  
**(Spring)**

**1 credit hour**

*Prerequisite:* MUSI 2541 and MUSI 2543 or placement examination. *Co-requisite:* Enrollment in MUSI 2553. Sight-singing, ear-training, and keyboard laboratory component for MUSI 2553.

**+2553 Theory of Music IV**  
**(Spring)**

**3 credit hours**

*Prerequisite:* MUSI 2541 and MUSI 2543 or placement examination. *Corequisite:* Enrollment in MUSI 2551. Continuation of MUSI 2543. Advanced theoretical concepts of late 19th century and 20th century compositional practice including polytonality, atonality, twelve-tone, and serialistic practice.

**+3333 History and Literature of Music I\*\***  
**(Fall—odd years)**

**2 credit hours**

Historical survey of Western music history from Antiquity to 1750. This course will count as a humanities credit for graduation.

**+3343 History and Literature of Music II\*\***  
**(Spring—even years)**

**2 credit hours**

Historical survey of Western music history from 1750 to the present. This course will count as a humanities credit for graduation.

**+3563 Forms and Analysis**  
**(Fall)**

**3 credit hours**

*Prerequisite:* Theory Barrier Exam. Elements of musical form and design in music from the medieval era to the present.

- +3612 Instrumentation**  
**(Spring—even years)**  
**2 credit hours**  
*Prerequisite:* MUSI 3563. Examination of the various instruments in the orchestra and the symphonic band and their specific design, function, and usage.
- +3622 Orchestration**  
**(Fall—even years)**  
**2 credit hours**  
*Prerequisite:* MUSI 3612. An examination of the various instruments in the orchestra and symphonic band through analysis of extant scores and assignments in arranging and orchestrating for symphonic band, orchestra, and various chamber ensembles. Topics will include the varying demands of student organizations as opposed to professional ensembles.
- +3632 Arranging**  
**(Spring—odd years)**  
**2 credit hours**  
*Prerequisite:* MUSI 3622. Continuation of concepts in arranging addressed in MUSI 3622 with emphasis on arranging and scoring for vocal ensembles. Students focus on producing work that is performance caliber and which can become part of their portfolios.
- +3713 Counterpoint**  
**3 credit hours**  
*Prerequisite:* MUSI 2553. Examination of polyphonic composition techniques in the 16th and 18th centuries. Application of techniques discussed through original composition projects.
- 3723 Composition**  
**3 credit hours**  
 Guided study in composition.
- 3733 Music Technology**  
**3 credit hours**  
*Prerequisite:* MUSI 2553 and/or admission into the OPSU Teacher Education Program or permission of instructor. An introduction to the techniques and methods of digital music notation, recording, production and distribution, as well as classroom computer software, scanners, ITV, SmartBoard use, etc., to allow the candidate to integrate and adapt these technologies into daily lesson planning and use. Students pursuing the BM-Music Education track will emphasize technology and systems appropriate to the music classroom and professional preparation.
- 4000 Problems in Music**  
**(Offered as Needed)**  
**1-3 credit hours**  
*Prerequisite:* MUSI 2553. Problems and/or independent study course in music for music majors. May be repeated with varying content.

## **MUSIC EDUCATION (MUED)**

- 2112 Woodwind Pedagogy**  
**(Spring - odd years)**  
**2 credit hours**  
 Methods and materials used in elementary and secondary teaching of flute, oboe, clarinet, saxophone, and bassoon.
- 2113 Introduction to Music Education**  
**3 credit hours**  
 An introductory course that explores the historical and philosophical foundations of Music Education, the practical application of these philosophies, the legal and financial aspect of today's common school system, and introduces the element of educational research to the students.
- 2212 Brass Pedagogy**  
**(Fall—even years)**  
**1 credit hour**  
 Methods and materials used in elementary and secondary teaching of trumpet, horn, trombone, euphonium, and tuba.

- 2312 Percussion Pedagogy**  
**(Spring—even years)**  
**1 credit hour**  
 Methods and materials used in elementary and secondary teaching of traditional and popular percussion instruments.
- 2412 Strings Pedagogy**  
**(Fall—odd years)**  
**1 credit hour**  
 Methods and materials used in elementary and secondary teaching of violin, viola, cello, and double bass.
- 2521 Diction for Singers I**  
**(Fall)**  
**1 credit hour**  
 Introduction to the International Phonetic Alphabet and the rules of pronunciation for singing in Italian and English.
- 2531 Diction for Singers II**  
**(Spring)**  
**1 credit hour**  
*Prerequisite: MUED 2521.* Continuation of MUED 2521. Examination of the rules of pronunciation for singing in French and German.
- 2541 Advanced Diction for Singers**  
**1 credit hour**  
*Prerequisite: MUED 2531.* Extension of concepts learned in MUED 2521 and MUED 2531. Examination of the rules of pronunciation of Germanic and Italianate Latin, Castillian and Mexican Spanish; introduction to the rules of pronunciation in Russian, Hebrew, Japanese, and other languages as determined by the instructor.
- 3113 Principles of Conducting**  
**(Fall—see music department for rotation schedule)**  
**3 credit hours**  
 Introduction to the basic concepts and techniques of conducting. Includes concepts and application of score study and practice; conducting with nuance; and rehearsal techniques for both instrumental and vocal ensembles.
- 3122 Instrumental Conducting**  
**(Spring—see music department for rotation schedule)**  
**2 credit hours**  
*Prerequisite: MUED 3113.* Conducting methods for bands and orchestras; score analysis, interpretation, and preparation; rehearsal techniques; program building; selection of appropriate repertoire. Application of acquired skills is demonstrated in a laboratory setting.
- 3132 Choral Conducting**  
**(Fall—see music department for rotation schedule)**  
**2 credit hours**  
*Prerequisite: MUED 3122.* Conducting methods for choirs; score analysis, interpretation and preparation; rehearsal techniques; program building; selection of appropriate repertoire. Application of acquired skills is demonstrated in a laboratory setting.
- 3212 Vocal Pedagogy**  
**2 credit hours**  
 Principles and methods of teaching singing in junior and senior high school music programs; working with solo voices as well as choral groups of various sizes and levels of proficiency; appropriate literature; study of the vocal mechanism; addressing the changing voice; diagnostic and evaluative procedures.



- 3312 Elementary School Music Methods**  
**(Fall—see music department for rotation schedule)**  
**2 credit hours**  
*Prerequisite: Admission in to Teacher Education Program.* Basic concepts in teaching general music in the elementary grades; theories of learning music; adapting methods of teaching concepts to the learning styles and special needs of children. Includes elementary music room management strategies; lesson planning and assessment.
- 3222 Vocal Repertoire**  
**(Spring—see music department for rotation schedule)**  
**2 credit hours**  
 An in-depth study of literature for vocal teaching, both solo and ensemble; includes all types of vocal repertoire, as well as some folk music acceptable for children.
- 3322 Secondary School Music Methods**  
**(Spring—see music department for rotation schedule)**  
**2 credit hours**  
*Prerequisite: Admission in to Teacher Education Program.* Basic concepts in teaching general music in the secondary grades (vocal and instrumental); including theories of learning music; adapting methods of teaching music concepts to the learning styles and special needs of children. Includes secondary music room management strategies; lesson planning and assessment.
- 3412 Marching Band Techniques**  
**2 credit hours**  
*Prerequisite: Junior standing or consent of instructor.* Management and teaching techniques for the marching band. Field design; marching techniques; parade technique; and pep-band techniques; classroom management strategies; curriculum development; lesson planning, and evaluation.
- 3512 Piano Pedagogy**  
**2 credit hours**  
 Techniques, methods, issues, and materials in piano teaching and their practical applications.
- 3522 Piano Repertoire**  
**2 credit hours**  
 A survey of the literature for solo piano from the Baroque to the present.
- +3612 Instrumentation**  
**(Spring—even years)**  
**2 credit hours**  
*Prerequisite: MUSI 3563.* Examination of the various instruments in the orchestra and the symphonic band and their specific design, function, and usage.
- +3622 Orchestration**  
**(Fall—even years)**  
**2 credit hours**  
*Prerequisite: MUSI 3612.* An examination of the various instruments in the orchestra and symphonic band through analysis of extant scores and assignments in arranging and orchestrating for symphonic band, orchestra, and various chamber ensembles. Topics will include the varying demands of student organizations as opposed to professional ensembles.
- 4112 Independent Study in Advanced Conducting**  
**2 credit hours**  
*Prerequisite: MUED 3132 or consent of instructor.* Continuation of MUED 3132. Advanced topics in score interpretation and analysis; rehearsal techniques; expressive gestures and control of the ensemble; conducting major works with both vocal and instrumental ensembles.

**4212 Music Leadership Internship****2 credit hours**

*Prerequisite:* Admission to the upper division of music performance study and permission of instructor. A study of the world of professional music administration through student internships with performing groups in the community.

**4312 Professional Development for Musicians****2 credit hours**

*Prerequisite:* Admission to the upper division of music performance study. Assists music majors in their last year of undergraduate study with preparation for marketing a career in music through audition preparation, resume/CV development and dealing with arts management entities.

**NURSING (NURS)**

*Courses may be taught at other times based on student need.*

**+2223 Healthcare Economics****(Fall/Spring)****3 credit hours**

Case study methodology used to examine the fundamental economic principles in contemporary health care. Impact of managed care, prospective payment, and market competition will be discussed.

**3013 Medical Terminology****3 credit hours****(Fall/Spring)**

Study of the definition and use of medical terms common to many health-related disciplines.

**+3113 The Science of Nursing****(Fall/Spring)****3 credit hours**

Examines the philosophical and theoretical bases underlying concepts and operations inherent to nursing. The evolution and current state of theory in nursing will be examined. Multiple theorists will be studied, including Jean Watson, and the Theory of Human Caring, and other caring theories.

**+3213 Pharmacotherapeutics****(Fall/Spring/Summer)****3 credit hours**

*Prerequisite:* 8 hours of chemistry/biology. Examines the principles of therapeutic pharmacology for restoration and support of the psychological and physiological and chemical processes in human functions across the lifespan. Focus on drug classes and specific drugs in the context of their principle uses, their effects on biochemical or physiological processes, and guidelines for nursing interventions indicated by these effects.

**3214 Health Assessment and Health Promotion/ Lab****(Fall/Spring)****4 credit hours**

Emphasis on developing and utilizing critical skills necessary to holistically assess, evaluate and document the health status of clients throughout their life span. Health promotion and maintenance, education, and caring are components of this process. Laboratory component.

**3333 Nursing in Rural America****(Fall/Spring/Summer)****3 credit hours**

Examines rural culture and factors that impact the health of rural residents. Focus is on characteristics and perspectives of rural residents, barriers to healthcare services, role and scope of rural nursing practice, and health promotion for rural populations (individuals, families and communities). The current state of rural nursing theory is addressed.

**3343 Nursing Research****(Fall/Spring)****3 credit hours**

*Prerequisite:* MATH 1513 or MATH 1473, *Co-requisite:* BADM/SOC/PSYC 3613 and BIOL 3813 (pre or co-requisite). This course examines the study of the foundations of scientific investigation in nursing. Emphasis is on evidence-based practice in nursing including research methodologies and processes and critical appraisal of the nursing and/or health care literature.

**4000 Special Topics in Nursing**  
**(Offered as Needed)**  
**1-4 credit hours**

*Prerequisite:* Eight hours of NURS 3000 level courses. Gives students opportunity to pursue areas of individual interest within the field of nursing. May be repeated with a change in area of interest for a maximum of 6 semester hours.

**+4013 Pathophysiology**  
**(Spring)**  
**3 credit hours**

*Prerequisite:* Eight hours of chemistry/biology. Designed to examine the outcomes of pathological processes at cellular and systemic levels; focuses on etiological, symptomatic, and pathological aspects of major physiological alterations in humans.

**4226 Community Health Nursing**  
**(Fall/Spring)**  
**6 credit hours**

Emphasizes caring concepts and interventions in the delivery of health care to community populations across the lifespan. Throughout the course, students will collaborate with community health-care professionals and resource providers. Community health-focused activities, family assessment activities and community-centered projects allow students to integrate knowledge, theory, and evidence based practice relevant to community nursing. Practicum component. Class is 8 weeks in length, ending at midterm and is subject to university enrollment deadlines.

**4336 Nursing Leadership Management**  
**(Fall/Spring)**  
**6 credit hours**

Focuses on synthesis of leadership and management skills and organizational behaviors relevant to professional nursing practice. Throughout the course, students will collaborate with healthcare leaders/managers while participating in leadership activities and projects. Practicum Component. Class is 8 weeks in length, ending at midterm and is subject to university enrollment deadlines.

**4342 Professional Practice Seminar**  
**(Fall/Spring)**  
**2 credit hours**

Ethical, legal, political, and social issues facing the nursing profession and society are examined. Traditional moral categories are reviewed and applied to case studies in health care. Focus is on professionalism and professional values, as well as trends and issues that impact the nursing profession.

## **PHYSICS (PHYS)**

**+2014 General Physics I**  
**(Fall)**  
**4 credit hours**

*Prerequisite:* MATH 1613. Principles of mechanics, heat, and thermodynamics. For science and engineering majors.

**+2114 General Physics II**  
**(Spring)**  
**4 credit hours**

*Prerequisite:* PHYS 2014. Principles of electricity, sound, light, and magnetism. For science and engineering majors.

**+2212 Physics I Calculus Supplement**  
**(Offered as Needed)**  
**2 credit hours**

*Prerequisites:* PHYS 2014 and MATH 1824. Concentrated application of calculus to mechanics, thermodynamics, and wave phenomena. Course geared toward teaching pre-engineering students to be able to use calculus to analyze physics and engineering problems.

**+2312 Physics II Calculus Supplement**  
**(Offered as needed)**  
**4 credit hours**

*Prerequisite:* PHYS 2114 and MATH 2424. *Corequisite:* MATH 2434. Concentrated application of calculus to optics, electromagnetism, special relativity, and quantum mechanics. Geared toward teaching pre-engineering students to be able to correctly use calculus to analyze physics and engineering problems.

**+2412 Basic Electricity and Magnetism****(Offered as needed)****2 credit hours**

*Prerequisite:* MATH 1824 and concurrent enrollment in PHYS 2521. Electric and magnetic phenomena. DC and AC circuits; introduction to electronics.

**+2521 Electrical Laboratory****(Offered as needed)****1 credit hour**

*Prerequisite:* Concurrent enrollment in PHYS 2412. Electrical measurements, electrical instrumentation, and electronics.

**+4100 Topics in Physics****(Offered as needed)****1-4 credit hours**

*Prerequisite:* Consent of instructor. In-depth treatment of selected topics and problems in physics. May be repeated for credit when the instructor determines that there will not be a duplication of material.

**POLITICAL SCIENCE (POLS)****+1013 American Government and Politics****(Fall/Spring)****3 credit hours**

Origin and framework of the US federal government.

**+2013 Introduction to Law****3 credit hours**

Overview of the American legal system; cursory overview of common law principles, civil law and procedure, criminal law and procedure, and the influence of the courts on policy. Upon completion of this course, students should have a clear understanding of their constitutional rights as citizens and a better understanding of the intricacies of the American legal system.

**+2043 American Foreign Policy****3 credit hours**

Provides a historical and process-based overview of American foreign policy as it relates to the global community. Additionally, the political governance systems of various other countries and international institutions will be evaluated and compared to the US

**+2313 State and Local Government****(Every 2 years)****3 credit hours**

*Prerequisite:* POLS 1013. Government of the state and its subdivisions.

**+2413 Public Policy****(Every 2 years)****3 credit hours**

*Prerequisite:* POLS 1013. Policies, functions, and programs of the national government. Specific policies in labor, agriculture, business welfare, civil rights, and national security analyzed against a background of history, politics, and governmental institutions.

**+3013 International Relations****(Every 2 years)****3 credit hours**

*Prerequisite:* POLS 1013. Principles and problems of international relations in both international security and international political economy.

**+3143 Comparative Government****(Every 2 years)****3 credit hours**

*Prerequisite:* POLS 1013. Comparison of the government of the US to the governments of European, Asian, African, and Latin American nations.

**+3353 Political Parties and Pressure Groups****(Every 2 years)****3 credit hours**

*Prerequisite:* POLS 1013. Political parties in relation to pressure groups, suffrage, campaigning, public opinion, etc.

- +3713 Principles of Public Administration**  
**(Every 2 years)**  
**3 credit hours**  
*Prerequisite: POLS 1013.* Principles and problems of public administration in federal, state, and local governments and the role of public administration in the political process.
- +3753 American Constitutional Law**  
**(Fall)**  
**3 credit hours**  
*Prerequisite: POLS 1013.* Judicial systems, court procedures, appeal procedures, and Supreme Court decisions which have contributed to the contemporary interpretation of the American Constitution.
- +4000 Problems in Political Science**  
**(Offered as Needed)**  
**1-3 credit hours**  
 Problems and/or independent study course in political science. May be repeated with different topics/readings.
- +4103 History of Political Philosophy \*\***  
**3 credit hours**  
*Prerequisite: Junior standing.* Major theories of western political thought including but not limited to Plato, Aristotle, Hobbes, Locke, and Montesquieu and their relevance for the contemporary world.
- +4113 Advanced Concepts in Political Science**  
**3 credit hours**  
*Prerequisite: POLS 1013 and Junior standing.* Provides a detailed overview of the essential aspects of political science. Course will focus on both American and international political processes, the American legal process, and the background of relevant American public policies. These aspects will be coupled with critical thinking and debate regarding the role of government in one's own life.

## **PSYCHOLOGY (PSYC) +**

- 1113 General Psychology**  
**(Fall/Spring)**  
**3 credit hours**  
 Science of human behavior. Consideration of heredity, environment, maturation, motivation, learning, memory, intelligence, aptitudes, and personality. Especially recommended for students preparing to teach.
- 2123 Psychology of Personal Adjustment**  
**(Fall/Spring)**  
**3 credit hours**  
 Study of positive remedial and preventive objectives; physical, psychological, and social factors affecting personal adjustment.
- 3073 Biological Psychology**  
**(Fall)**  
**3 credit hours**  
*Prerequisite: PSYC 1113.* Main structural and functional characteristics of the receptor-connector-effector system and how it affects human behavior.
- 3113 History and Systems of Psychology**  
**3 credit hours**  
*Prerequisite: PSYC 1113.* The historical roots and development of the discipline of psychology. Review of key scientific developments and discoveries through a study of the major personalities, theories, and methods of inquiry.
- 3121 Peer Counseling Lab**  
**1 credit hour**  
*Prerequisite: Acceptance in the Peer Counseling Program.* Required of all peer counselors. May be repeated for each semester of active participation in the Peer Counseling Program. Consists of peer help and training with an emphasis on providing counseling services for OPSU students.
- 3223 Lifespan Development**  
**(Fall/Spring)**  
**3 credit hours**  
*Prerequisite: PSYC 1113.* Development over the life span, from conception to death, with emphasis on research, theory, and its application in the areas of cognitive, personality, social, and physiological changes.

- 3253 Theories of Personality**  
(Offered as Needed)  
**3 credit hours**  
*Prerequisite: PSYC 1113.* Study of the major topics, theories, and research in personality psychology.
- 3333 Industrial Psychology**  
(Spring)  
**3 credit hours**  
*Prerequisite: PSYC 1113.* Application of psychological facts and principles of creating the optimum work environment, work schedule, and work procedures; role of behavioral factors in the design and operation of machines and equipment.
- 3513 Psychology of Learning**  
(Spring)  
*Prerequisite: PSYC 1113.* Consideration of topics pertaining to behavior change as a function of experience and extending from relatively simple learning processes, such as classical and instrumental conditioning, to the relatively complex, such as verbal learning and concept identification.
- 3613 Statistics**  
(Fall/Spring)  
**3 credit hours**  
*Prerequisite: MATH 1513, 1473, or 1715.* Experimental investigation of group behavior. Emphasis on emotions, drives and personality traits in the adjustment of individuals to the demands of modern society.
- 3743 Social Psychology**  
(Fall)  
**3 credit hours**  
*Prerequisite: PSYC 1113.* Experimental investigation of group behavior. Emphasis on emotions, drives, and personality traits in the adjustment of individuals to the demands of modern society.
- 3913 Experimental Psychology**  
(Spring)  
**3 credit hours**  
*Prerequisite: PSYC 1113 and PSYC 3613.* Problems, methods, and applications of experimental psychology.
- 3990 Special Topics in Psychology**  
(Offered as Needed)  
**1-3 credit hours**  
Problems and/or independent study course in psychology. May be repeated with varying topics/readings.
- 4000 Problems in Psychology**  
(Offered as Needed)  
**1-3 credit hours**  
Problems and/or independent study course in psychology. May be repeated with varying topics/readings.
- 4083 Principles of Guidance and Counseling**  
(Offered as Needed)  
**3 credit hours**  
*Prerequisite: PSYC 1113 and PSYC 4443.* History of the guidance program. Techniques applied to occupational, educational, and psychological counseling.
- 4443 Abnormal Psychology**  
(Offered as Needed)  
**3 credit hours**  
*Prerequisite: six hours of psychology including PSYC 1113, and ENGL 1213.* Study of the major mental disorders, diagnostic techniques and mental health laws, and ethics.
- 4813 Tests and Measurements**  
(Spring - odd years)  
**3 credit hours**  
*Prerequisite: PSYC 1113 and six hours of psychology.* Principles and techniques of psychological testing. Introduction to psychological tests adapted for specific conditions, administration, and evaluation.

**4990 Seminar in Psychology**  
**(Offered as Needed)**  
**1-3 credit hours**

*Prerequisite: 12 hours of psychology recommended and consent of instructor.* Course will be conducted as a seminar. Each student will select an area of interest for research. Each student will be responsible to the group for reports of his/her research and discussion. May be repeated with varying topics/readings.

**RELIGION (REL) +**

**1013 The Old Testament**  
**3 credit hours**

Survey of Old Testament literature with special attention given to literary form, historical background, and religious message.

**1113 The New Testament**  
**3 credit hours**

Survey of New Testament books with emphasis upon origin, religious content, and relevance to present-day Christian living.

**2012 The Life and Teachings of Jesus**  
**2 credit hours**

Detailed study of the Gospels concerning the life and teachings of Jesus with special emphasis upon their present-day significance.

**2022 The Life and Letters of Paul**  
**2 credit hours**

Survey of the life and times of the Apostle Paul, with major concentration of the message of his letters to the churches of Asia Minor and Europe.

**2032 Contemporary World Religions\*\***  
**2 credit hours**

Study of some of the major religions of the world with emphasis on their origin, history, and teachings.

**3022 Marriage and Family Living**  
**2 credit hours**

Christian foundations for marriage and family living.

**4000 Problems in Religion**  
**1-3 credit hours**

Problems and/or independent study course in religion. May be repeated with varying topics/readings.

**4012 Early and Medieval Church History \*\***  
**2 credit hours**

Christian movement and development from the Apostolic Age to 1500.

**4022 Modern Church History**  
**2 credit hours**

Background and development of Christianity since 1500.

**4032 Contemporary Ethical Problems \*\***  
**2 credit hours**

Study of ethical problems.

**4042 Philosophy of Religion\*\***  
**2 credit hours**

Religious experience of mankind with special emphasis on Western thought and Christian tradition.

**SCIENCE EDUCATION (SCED)**

**4652 Methods and Materials in Teaching Secondary Science**  
**2 credit hours**

*Prerequisite: Acceptance to the Teacher Education Program.* Recommended for those who intend to teach science in the secondary schools.

**SOCIOLOGY (SOC) +**

- 1113 Elements of Sociology (Fall/Summer)**  
**3 credit hours**  
 General survey of sociology; origin and development of social institutions; social processes.
- 2003 Critical Thinking**  
**3 credit hours**  
 Studies the process by which one develops and supports one's beliefs with clear, unambiguous arguments and evaluates the strength of the arguments of others in real-life situations. Includes practice in inductive and deductive reasoning, presentation of arguments in oral and written form, and analysis of the use of language to influence thought. Applies the reasoning process in fields such as business, law, science, and the arts.
- 2123 Social Problems**  
**3 credit hours**  
 Study of current social problems including various perspectives on alternative social policies.
- 2233 Principles of Rural Sociology (Offered as Needed)**  
**3 credit hours**  
 Nature and structure of rural society; status of rural society in comparison to non-agricultural society.
- 2243 Multicultural Sociology (Spring)**  
**3 credit hours**  
 Study of domestic and foreign cultures from a sociological perspective with a focus on cultures common to the US.
- 2353 General Anthropology**  
**3 credit hours**  
 Introduction to the origin of human beings human evolutionary development; basic concepts concerning race, culture, and society.
- 3253 Population (Offered as Needed)**  
**3 credit hours**  
 Distribution, growth, and characteristics of human populations and their social organization.
- 3363 Selected Topics (Offered as Needed)**  
**3 credit hours**  
 Topics selected by instructor. May be repeated provided topics vary.
- 3423 Marriage, Family, and Parenting**  
**3 credit hours**  
 Study of the contemporary American couple's relationship and adjustments in partnerships, including couple and family interactions throughout the life cycle.
- 3613 Statistics (Fall/Spring)**  
**3 credit hours**  
*Prerequisite: MATH 1513 or 1743 or 1715.* Methods of collecting, analyzing, presenting, and interpreting numerical data for a variety of applications; emphasis on application of statistical principles.
- 3643 Formal Organization (Offered as Needed)**  
**3 credit hours**  
 Main facets of organizational life including examination of formal organizations as to their nature and type; relations that exist between organizations; social context of which they are part; their internal structure and various components; communications process; mechanisms of social control.



- 3743 Social Psychology**  
**(Offered as Needed)**  
**3 credit hours**  
*Prerequisite:* Six hours of psychology or sociology and consent of instructor. Experimental investigation of group behavior. Emphasis on emotions, drives, and personality traits in the adjustment of individuals to the demands of modern society.
- 4000 Problems in Sociology**  
**(Offered as Needed)**  
**1-3 credit hours**  
 Problems and/or independent study course in sociology. May be repeated when topics change.
- 4333 Criminology**  
**(Spring)**  
**3 credit hours**  
*Prerequisite:* SOC 1113 or PSYC 1113. Development of theories of criminal behavior; procedures for the control of crime and delinquency.
- 4383 Social Stratification**  
**(Offered as Needed)**  
**3 credit hours**  
*Prerequisite:* SOC 1113. Distribution of wealth, power, prestige, and related values.
- SPANISH (SPAN) +**
- 1114 Elementary Spanish I**  
**(Fall/Spring)**  
**4 credit hours**  
 Introduction to Spanish with emphasis on conversation and comprehension along with the development of reading and writing skills.
- 1224 Elementary Spanish II**  
**(Fall/Spring)**  
**4 credit hours**  
*Prerequisite:* SPAN 1114 or one year of high school Spanish. Continuation of SPAN 1114.
- 2113 Intermediate Spanish I**  
**(Fall)**  
**3 credit hours**  
*Prerequisite:* SPAN 1224 or equivalent. Review of Spanish grammar, systematic study of Spanish composition, vocabulary building, and reading of short Spanish classics.
- 2223 Intermediate Spanish II**  
**(Spring)**  
**3 credit hours**  
*Prerequisite:* SPAN 2113. Continuation of SPAN 2113.
- 3073 Peninsular Language, Culture, and Literature I\*\***  
**(Fall—every other year)**  
**3 credit hours**  
*Prerequisite:* SPAN 2223 or equivalent. Advanced conversation, reading, and writing about the culture and literature of the Peninsula from the Middle Ages through the 18th century.
- 3083 Latin American Language, Culture, and Literature I\*\***  
**(Fall—every other year)**  
**3 credit hours**  
*Prerequisite:* SPAN 2223 or equivalent. Advanced conversation, reading, and writing about the culture and literature of Latin America in the 20th century.
- 3113 Advanced Spanish Grammar**  
**3 credit hours**  
*Prerequisite:* SPAN 2223 or equivalent. Detailed analysis and understanding of Spanish grammar.

- 3173 Peninsular Language, Culture, and Literature II\*\***  
(Spring—every other year)  
**3 credit hours**  
*Prerequisite: SPAN 3073.* Continuation of SPAN 3073.
- 3183 Latin American Language, Culture, and Literature II\*\***  
(Spring—every other year)  
**3 credit hours**  
*Prerequisite: SPAN 3083.* Continuation of SPAN 3083.
- 3223 Advanced Spanish Conversation**  
**3 credit hours**  
*Prerequisite: SPAN 3113 or equivalent.* Advanced Spanish conversation including readings and discussions of contemporary issues and current events.
- 3303 Advanced Spanish Composition**  
**3 credit hours**  
*Prerequisite: SPAN 3113 or equivalent.* Composition in Spanish with readings on contemporary issues and their relationship to the world.
- 4000 Problems in Spanish**  
(Interterm)  
**1-3 credit hours**  
Problems and/or independent study course in Spanish. May be repeated up to six hours with change of course content.
- 4113 Spanish Civilization\*\***  
**3 credit hours**  
*Prerequisite: SPAN 3203 or equivalent.* Overview of Spanish civilization from an historical, geographical, anthropological, and sociological point of view.
- 4123 Individual Topics in Spanish Peninsular Literature\*\***  
**3 credit hours**  
*Prerequisite: SPAN 3113 or equivalent.* Individual topics and readings in Spanish Peninsular literature with a look at a specific school of literature, author, genre, or group of authors.
- 4223 Individual Topics in Latin American Literature\*\***  
**3 credit hours**  
*Prerequisite: SPAN 3113 or equivalent.* Individual topics and readings in Latin American literature in regard to specific schools of literature, genre, or authors.
- 4233 Latin American Civilization\*\***  
**3 credit hours**  
*Prerequisite: SPAN 3203 or equivalent.* Examination of Spanish civilization from historical, geographical, anthropological, and sociological points of view with readings in articles, journals, and histories with regard to the birth of the Latin American civilization pre-1492. These civilizations will be examined in relationship to their impact after the discovery of the New World.
- 4313 Spanish Phonetics**  
**3 credit hours**  
*Prerequisite: SPAN 3113 or equivalent.* Analysis and understanding of Spanish phonetics.

## **SPEECH COMMUNICATIONS (COMM) +**

- 1113 Speech Communication**  
(Fall/Spring/Summer as Needed)  
**3 credit hours**  
Principles of communicating with others in one-to-one, one-to-many, and small group situations. Idea transmission is stressed with practice in speech preparation and delivery.
- 2111 Forensic Activities**  
(Fall/Spring)  
**1 credit hour**  
*Prerequisite: Consent of instructor.* Participation in intercollegiate contests, festival activities, dramatics, forensics (debate), or radio-television. Maximum of four hours may be counted toward graduation.

- 2503 Communication for Health Care Providers**  
**3 credit hours**  
*Prerequisite:* Must be accepted to the BSN program at OPSU. Introduction for health care professional students to skills and concepts of intra-and interpersonal communication, addressing issues of health care today and the communication strategies which may be employed.
- 2713 Voice and Articulation**  
**(Spring—every other year)**  
**3 credit hours**  
*Prerequisite:* COMM 1113. Introduction to correct speech production and speech correction through the study of phonetics and the nature of human vocal mechanisms.
- 3140 Special Studies in Speech**  
**1-3 credit hours**  
*Prerequisite:* Junior standing. Independent study based upon specialized readings. May be repeated with varying content.
- 3173 Business Communications**  
**(Fall/Spring)**  
**3 credit hours**  
*Prerequisite:* ENGL 1213. The study and applications of the concepts of inter- and intra-organizational communications—oral and written. Includes listening skills, letters, memos, resumes, giving instructions, chairing meetings, and interviews. Cross-listed as BADM 3173.
- 3703 Small Group Discussion**  
**(Fall)**  
**3 credit hours**  
*Prerequisite:* COMM 1113. Leadership training through the study of oral communication and decision-making. Relationship of oral communication and discussion techniques to problem-solving, decision-making, conflict resolution, and patterns of leadership in small groups. Cross-listed as MGMT and BADM 3703.
- 3713 Argumentation and Logic**  
**(as needed)**  
**3 credit hours**  
*Prerequisite:* COMM 1113. Analysis and reasoning in the study of argumentation and debate in a democratic society. Practical study is stressed.
- 3723 Interpretation\*\***  
**(as needed)**  
**3 credit hours**  
*Prerequisite:* COMM 1113. Basic techniques of the oral interpretation of literature: poetry, prose, and drama. Class projects required.
- 4100 Special Topics in Speech**  
**1-3 credit hours**  
 Problems and/or special topics course in communication. May be repeated with content change.
- 4112 Teaching Speech**  
**2 credit hours**  
*Prerequisite:* Senior standing or consent of instructor. Methods and materials in teaching a balanced speech and drama curriculum in the secondary school.
- 4142 Seminar in Speech**  
**2 credit hours**  
*Prerequisite:* Consent of instructor. Research in methods and materials used in speech communication in industry, schools, and other areas of American culture. Individual student research. May be repeated with different topics/readings.
- 4703 Organizational Communication**  
**(Spring--every other year)**  
**3 credit hours**  
*Prerequisite:* COMM 1113. Emphasis upon communication behaviors which occur within organizational structures, including group processes, interviewing techniques, listening behaviors, and communication phenomena within business, professional, and community organizations. Cross-listed as MGMT 4703.

**DRAMA****2423 Introduction to Theatre\*\*****(Spring)****3 credit hours**

Introduces students to various areas of theatre including history, acting, criticism, playwrights, and technical theater. Introduction to new trends in theater designed to give students a better knowledge and appreciation of theatre. Creative dramatics and children's theatre will aid students interested in educational theatre.

**2433 Stagecraft I****(Spring)****3 credit hours**

*Prerequisite: COMM 1113 and COMM 2423.* Problems of technical production of plays: stage craft, scene painting, special effects, costumes, and make-up.

**3433 Stagecraft II****3 credit hours**

*Prerequisite: COMM 2433.* A continuation of COMM 2433. Special emphasis on scene design, and stage management, and house management.

**4412 Reader's Theater (Advanced Interpretation)\*\*****2 credit hours**

*Prerequisite: COMM 2423 and COMM 3723 or consent of instructor.* Principles and techniques of oral interpretation with emphasis on drama.

**4432 Analysis of Modern Drama\*\*****(Spring)****2 credit hours**

*Prerequisite: COMM/HUM 2423 or HUM/ENGL 2413 or consent of instructor.* Analysis of selected modern dramas to show the repetition and continuation of historical forms as well as an indication of the trends in contemporary dramatic writing through the study of professional theater critiques. Cross-referenced with ENGL 4432.

**4443 Directing****(Fall—every other year)****3 credit hours**

*Prerequisite: Senior standing and consent of the instructor.* Lecture-laboratory course to give the student practical experience in directing plays and theater productions.

**4713 Rhetoric and Public Address****(as needed)****3 credit hours**

*Prerequisite: COMM 1113.* Analysis of speech effectiveness in American history. Emphasis on preparation and delivery of effective oral communication.

*Prerequisite: COMM 1113 and COMM 2423.* Problems of technical production of plays: stage craft, scene painting, special effects, costumes, and make-up.

**3412 The Art of Acting****(Spring—every other year)****2 credit hours**

General introduction to the process and art of acting: actor's instrument, sensory awareness, personal and group response, objectives, and tactics. Fundamentals of naturalistic action and interaction; development of spontaneity, believability, and a sense of truth; genre playing and basic stage techniques and scene work will be emphasized.

**UNIVERSITY COLLEGE - STUDENT SUCCESS (UCSS)****1111 Student Success Seminar****(Fall/Spring)****1 credit hour**

Designed to improve skills essential for success in college including communication, critical thinking, and study skills. Assists students to explore career interests and educational or vocational goals and to become familiar with available university student support services and resources. Required of all students.

## UNIVERSITY COLLEGE - ENGLISH (UCEN)

### 0124 Elements of English (Fall/Spring) 4 hours

Provides integrated reading and writing instruction for students who require extensive preparation to succeed in college-level English courses. Students will be placed into this course based on ACT score, CPT score, GPA for English curriculum in high school, and self evaluation interview about their knowledge of grammar and writing.

## WILDLIFE (WILD)

### 1012 Introduction to Natural Resource Ecology and Management 2 credit hours

Introduction to the wide variety of natural resources found globally with a focus on Oklahoma ecoregions. Overview of the ecology and management of natural resources in the short-grass, tall-grass, and the mixed-grass prairies.

### 1014 Introduction to Natural History 4 credit hours

The study of living organisms especially their origins, life histories, behaviors, conservation, and unique adaptations for reproducing and relating to their environment. Laboratory emphasis is on observation and investigation of the diversity and adaptations of living organisms.

### 2013 Ecology and Natural Resources

*Prerequisites: BIOL 1304, AGRN 1213, and ANSI 1124.* Introductory focus on understanding and applying general ecological principles to agricultural and natural ecosystems. Emphasis on relationships between climate, soils, agricultural, and natural ecosystems. Topics include nutrient cycles, energy flow, species interactions, biological diversity, productivity, sustainability, and landscape and ecosystem management.

### 3013 Applied Ecology and Conservation 3 credit hours

*Prerequisites: BIOL 1304 or BIOL 1604. AGRN 2124 preferred.* Development of critical thinking for conservation and land management through application of ecological concepts and theory. Course covers principles of population, community, ecosystem, and landscape ecology, with applications to management of wildlife, fisheries, and forest and rangeland resources. The application of scientific method and literature to natural resource ecology and management is also covered.

### 4503 Principles of Wildlife Ecology and Management 3 credit hours

*Prerequisite: BIOL 3704.* Biological basis for management of wildlife populations and habitats with emphasis on current management problems.

## ABBREVIATIONS COURSES

Acct	Accounting	Mgmt	Management
Ag	Agriculture	Musi	Music
Aged	Agriculture Education	Muap	Applied Music
Agme	Agriculture Mechanized	Mued	Music Education
Agrn	Agromony	Mupi	Private Music
Ais	Accounting Information Systems	Phys	Physics
Ansi	Animal Science	Pols	Political Science
Art	Art	Psyc	Psychology
Aved	Aviation Education	Rel	Religion
Badm	Business Administration	Soc	Sociology
Biol	Biology	Span	Spanish
Chem	Chemistry	Ucss	University College Student Success
Cis	Computer Information Systems	Wild	Wildlife
Comm	Communications		
Cj	Criminal Justice		
Ctec	Computer Technology		
Easc	Earth Science		
Econ	Economics		
Educ	Education		
Ems	Emergency Medical Services		
Engl	English		
Equi	Equine Science		
Fin	Finance		
Fpst	Fire Protection		
Geog	Geography		
Hist	History		
Hosp	Hospitality/Tourism		
Hpe	Health and Physical Education		
Hum	Humanities		
Indt	Industrial Technology		
Math	Mathematics		
Medt	Medical Technology		
Mktg	Marketing		

## BUILDINGS

CART	Carter Hall
FML	Firestone Meat Lab
HMH	Hamilton Hall
HFH	Hefley Hall
HSH	Hesper Hall
HUGH	Hughes-Strong Hall
ML	Marvin E. McKee Library
MS	Metal Shops Building
NC	Noble Center
OW	Oscar Williams Field House
SAB	Science and Agriculture Building
SL	Sewell-Loofbourrow
SU	Student Union

## APPENDIX A

### PRESIDENTS OF OKLAHOMA PANHANDLE STATE UNIVERSITY

S.W. Black.....	1909-1916
J.F. Sharp.....	1916-1919
George A. Coffee.....	1919-1922
Albert W. Fanning.....	1922-1933
Byron Dacus.....	1933-1936
Edward L. Morrison.....	1936-1945
Marvin E. McKee.....	1946-1968
J.Freeman McKee.....	1968-1971
Thomas L. Palmer.....	1971-1987
William Larry Boyd.....	1987-1989
Theodore W. Wischropp.....	1990-1993
Ron Meek.....	1993-1994
John W. Goodwin.....	1995-2002
David Bryant.....	2003-2016
Tim Faltyn.....	2016-

## APPENDIX B

### RECIPIENTS OF J.R.P. SEWELL SCHOLARSHIP AND ACHIEVEMENT AWARD

Roy J. Hill .....	1949	Tonya Applegarth.....	1989
Eugene Williams .....	1950	Jocelyn Farmer.....	1990
Leo C. Cockrell.....	1951	Trisha King .....	1991
Keith L. Harner .....	1952	Bobby E. Buhr .....	1992
Aubrey B. Pierce.....	1953	Dale McCurdy.....	1993
Glenna F. Hundley .....	1954	Nat Hall.....	1994
Curtis C. Shiflett.....	1955	Steve Martin.....	1995
Marlene Phelps Benton .....	1956	Michelle Smiley .....	1996
Clayton G. Goff.....	1957	Tiphanie Looper .....	1997
Ralph Cramer .....	1958	Twyla J. Twyman .....	1998
Lucy Mae Shiflett.....	1959	Jamie Roberts.....	1999
Ronald I. Cramer, Jr. ....	1960	Amie M. Johnson .....	2000
Harold Frank Doenges .....	1961	Jennifer Brooks .....	2001
Carol Clark.....	1962	Kelly J. Hart.....	2002
Roma Ann Potter.....	1963	Darci N. Pillars.....	2003
Leroy Hawkins.....	1964	Jorge Aznar .....	2004
Elaine Thompson .....	1965	Chelsey Gunkel Scales.....	2005
Elaine Allen.....	1966	Lavada Kate Dollins .....	2006
Larry Quinn.....	1967	Allen Roberts .....	2007
Ruby Gayle Pittman.....	1968	Clancy Green .....	2008
Alene Thompson Humphrey .....	1969	James Russell Guthrie.....	2009
John Keith Flanagan .....	1970	Carrie Renee Kliewer.....	2010
Garvin Wayne Quinn .....	1971	Jack Bryon Test, Jr. ....	2011
Gib Allen Dolezal .....	1972	Kimberly Jo Tuttle .....	2012
Stanley Harold Jackson.....	1973	Owen Dane Larson .....	2013
Deborah L. Drake.....	1974	William Parks.....	2014
Marilyn R. Benton .....	1975	Ryan Bryant .....	2015
Gary Dale Haynes.....	1976	Eva Dye.....	2016
Ronald Dean Quinn.....	1977	Sage Kinsey .....	2017
James Hershey .....	1978	Sarah Brady.....	2018
Teresa Kay Robins .....	1979		
Lynetta Robins .....	1980		
Nancy Hallmark .....	1981		
Elizabeth Gardner McBee.....	1982		
Nickie Maxine Stipe .....	1983		
Troy Morris .....	1984		
Nanette Buhr .....	1985		
Kristi Patterson.....	1986		
Julia Ann Strasner .....	1987		
Stacy Palmer .....	1988		



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