Accredited by The Higher Learning Commission
and a member of the North Central Association

Program Accreditations
Accrediting Council on Education in Journalism and Mass Communications
American Alliance for Health, Physical Education, Recreation and Dance/National Association for Sport and Physical Education
The American Association of Agricultural Engineers
The American Chemical Society
Council for Academic Accreditation in Audiology and Speech-Language Pathology (CAA)
The National Council for Accreditation of Teacher Education
National Council of Teachers of Mathematics
National Council for the Social Studies
The Institute of Food Technologists
The National Association of Schools of Music
Council on Social Work Education

Member of:
The American Association of Colleges for Teacher Education
The American Association of State Colleges and Universities
The American Association of State Colleges of Agriculture and Natural Resources
The American Council on Education
The Association to Advance Collegiate Schools of Business–International
The National Commission on Accrediting
The North American Colleges and Teachers of Agriculture

August 2003–August 2005 No. 24

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Accounting (ACCT)
Department of Business Administration
College of Business and Economics

124 South Hall
(715) 425-3335

Reza Rahgozar-Chair, Charles Corcoran, Brian Huffman, Dawn Hukai, Claire Kilian, Ozcan Kilic, Darryl Miller, Carl Popelka, Jude Rathburn, Reza Rohgozar, Megan Sun, Mary Tichich, Ricardo Villarreal de Silva, Ellen Schultz-Academic Adviser.

Accounting involves measuring business activities and communicating this information to investors, creditors, and other decision makers who will use it to make sound, informed, financial decisions. This practice serves to encourage investment activity, which in turn creates jobs and helps the economy to grow.

The program of study is based on a solid foundation in the liberal arts to provide the student with thinking, communication, writing, and human and value judgment skills. The tool courses (lower division requirements) develop the student’s critical analytical, problem solving, and quantitative decision-making capabilities through a solid grounding in modern business and economic theory. It is the intention of the department to expose the student to the leading edge of theory while emphasizing the importance of human relationships and the ability to form sound ethical and moral decisions. In short, the program intends to equip the student for lifelong learning.

Students are required to have a minimum of 150 semester credit hours in order to sit for the CPA exam in Wisconsin. As of 2003, forty-eight states and jurisdictions have legislated the 150 credit hour requirement. The 150 semester hours may be completed at the undergraduate or the graduate level. Students should consult their adviser for the best course of study.

Students should plan to take MATH 146 (if necessary) before taking MATH 156 or ECON 205 as required in General Education. The lower division requirements must be completed before the student begins the upper division requirements and the required accounting courses. A 2.5 grade point average must be maintained in the required accounting and business law courses to graduate with a major in accounting.

This program is accredited by the Wisconsin State Board of Accountancy.

Overall, one-half of the credits required for graduation must be taken outside of the College of Business and Economics. At least 50 percent of the business credits required must be taken in the UW-RF College of Business and Economics.

General Education Requirements
As listed on pages pages 29-30 of the printed catalog with the following exceptions:

Mathematics: 3 cr. hrs.
MATH 156 Calculus for Business and Social Sciences
or ECON 205 Quantitative Analysis
or MATH 166 Calculus I (4 cr.)

Admission Requirements
For all majors in the College of Business and Economics:
Completion of at least 32 required general education credits with a minimum GPA of 2.25.
Additionally, the following must be completed, or in progress for completion, during the semester preceding admission. Students may register prior to acceptance, but acceptance is required for attendance in CBE upper-level courses. Students with GPAs between 2.0 and 2.25 may petition to the respective department chair for consideration on a case-by-case basis.

For admission to Accounting and Business Administration majors:
GPA of 2.25 in ACCT 231, 232; ECON 201, 202; CSIS 215; ECON 205 or MATH 156 or MATH 166; ECON or MATH 226; SCTA 116 or ENGL 266.

*These requirements apply to students entering UW-River Falls Fall Semester 2003 or later.

Accounting—Broad Area Major

Major Requirements - 69 Total Credits

Lower Division Requirements (Tool Courses): 24 cr. hrs.
ECON 201 Principles of Microeconomics 3 cr.
ECON 202 Principles of Macroeconomics 3 cr.
ACCT 231 Principles of Accounting I 3 cr.
ACCT 232 Principles of Accounting II 3 cr.
CSIS 215 Information Systems for Business Management 3 cr.
ECON 226 Introduction to Statistics 3 cr.
or MATH 226 Introduction to Statistics
BLAW 265 Business Law I 3 cr.
Choose one 3-credit course from:
SCTA 116 Business and Professional Communication
ENGL 251 Advanced Composition
ENGL 266 Business Writing
ENGL 367 Technical Writing

Required Courses: 39 cr. hrs.
BLAW 266 Business Law II 3cr.
MNGT 300 Management and Organizational Behavior 3 cr.
MKTG 310 Principles of Marketing 3 cr.
FINC 345 Managerial Finance 3 cr.
ACCT 321 Intermediate Accounting I 3 cr.
ACCT 322 Intermediate Accounting II 3 cr.
ACCT 356 Managerial Cost Accounting 3 cr.
ACCT 357 Advanced Managerial Cost Accounting 3 cr.
ACCT 360 Federal Income Tax I 3 cr.
ACCT 361 Federal Income Tax II 3 cr.
ACCT 366 Accounting Systems 3 cr.
ACCT 430 Advanced Accounting 3 cr.
ACCT 461 Auditing 3 cr.

Required Supporting Courses
A. CBE 100 Orientation to CBE 1cr.
   CBE 200 Professional Development I 1 cr.
   CBE 300 Professional Development II 1 cr.

B. Econ 205 Quantitive Analysis 3 cr.
   or Math 156 Calculus for Business and Social Science 3 cr.
   or Math 166 Calculus I 4 cr.
Directed Electives: 6 cr. hrs.
Select from Accounting (not ACCT 201),
Management (not MNGT 100, 150, or 205),
Finance (not FINC 210),
Marketing (not MKTG 311),
Economics (not ECON 100 or 205),
Computer Science (not CSIS 105 or 151),
ENGL 251 or ENGL 367.

No 9000 level courses (transfer courses with no UW-RF equivalent) will apply as directed electives.
Agricultural Economics (AGEC)
Department of Agricultural Economics
College of Agriculture, Food and Environmental Sciences

103 Agriculture Science Hall
(715) 425-3298
www.uwrf.edu/ag-economics/

Nate Splett–Chair, Brenda Boetel, Gregg Hadley, Lewis May, Stanley Schraufnagel, David Trechter.

General Education Requirements

As listed on pages 18-19 of the printed catalog.

Agricultural Business Major

Major Requirements 59 Total Credits

Foundation Courses in Agriculture 15 cr. hrs.

AGEC 230 Agricultural Economics I 3 cr.
ANSC 111 Introduction to Animal Science 3 cr.
AGEN 150 Agricultural and Environmental Engineering Technology 3 cr.
CROP 161 Introduction to Plant Science 3 cr.
SOIL 210 Introductory Soil Science 3 cr.

Required Courses 30 cr. hrs.

AGEC 231 Agricultural Economics II 3 cr.
AGEC 250 World Food and Population 3 cr.
AGEC 320 Statistical Methods 3 cr.
AGEC 330 Agricultural Production Economics 3 cr.
AGEC 355 Agricultural Markets and Prices 3 cr.
AGEC 365 Agricultural Finance 3 cr.
AGEC 440 Agricultural Policy I (writing intensive) 3 cr.
AGEC 441 Agricultural Policy II 3 cr.
AGEC 450 Introduction to Natural Resource Economics 3 cr.
AGEC 456 Commodity Marketing 3 cr.

Select A or B Below 14 cr. hrs.

A. AGEC 240 Cooperatives 2 cr.
AGEC 305 Agricultural Business Accounting 3 cr.
AGEC 360 Farm Management 3 cr.
AGEC 410 Professional Selling 3 cr.
AGEC 468 Agribusiness Firm Management (writing intensive) 3 cr.

B. ECON 326 Statistical Methods for Economics and Business 3 cr.
ECON 426 Forecasting and Economics 3 cr.
AGEC 300 or 400 level courses 8 cr.

Required Supporting Courses 3-4 cr. hrs.
MATH 156 Calculus for Business and Social Science 3 cr.
or MATH 166 Calculus I or 4 cr.
(Fulfills the Mathematics General Education Requirement)
Computer literacy, including competency in spread sheets.

Directed Electives: 15 cr. hrs.

If A is selected above, then select 15 credits from one of the
minors in the Agricultural Engineering Technology or Animal
and Food Science or Plant and Earth Science departments
If B is selected above, then select MATH 166 and, with the
consent of advisor, 15 credits from ECON, MATH, and/or CSIS.

Agricultural Business Minor

Required courses 24 cr. hrs.

AGEC 230 Agricultural Economics I 3 cr.
AGEC 231 Agricultural Economics II 3 cr.
AGEC 240 Cooperatives 3 cr.
AGEC 305 Agricultural Business Accounting 3 cr.
AGEC 355 Agricultural Markets and Prices (writing intensive) 3 cr.
AGEC 360 Farm Management
or AGEC 365 Agricultural Finance 3 cr.
AGEC 410 Professional Selling 3 cr.
AGEC 468 Agribusiness Firm Management 3 cr.

Agricultural Economics Minor

Required courses 24 cr. hrs.

AGEC 230 Agricultural Economics I 3 cr.
AGEC 231 Agricultural Economics II 3 cr.
AGEC 240 Cooperatives 2 cr.
AGEC 320 Statistical Methods 3 cr.
AGEC 355 Agricultural Markets and Prices (writing intensive) 3 cr.
AGEC 360 Farm Management 3 cr.
or AGEC 365 Agricultural Finance
AGEC 440 Agricultural Policy I (writing intensive) 3 cr.
AGEC 442 Agricultural Policy II (writing intensive) 3 cr.

See Also: Farm Management, page 64 of the printed catalog.
Agricultural Education (AGED)
Department of Agricultural Education
College of Agriculture, Food and Environmental Sciences

324 Agriculture Science Hall
(715) 425-3555
www.uwrf.edu/ag-education/

James Graham–Chair, Timothy Buttles, Tamia Trulson

General Education Requirements

General Education Requirements as listed on pages 18-19 of the printed catalog with the following exceptions:

Communication: ENGL 111, 112

Humanities and Fine Arts:
ART 100 Introduction to Art
or MUS 100 Understanding Music
or SCTA 105 Introduction to Theatre and Drama
Non-Western History: PHIL 245 is not an option

Sciences to include:
BIOL 100 Introduction to Biology
or BIOL150 General Biology
ESM 300 Environmental Education
CHEM 121 General Chemistry I
or CHEM 110 Introduction to General Chemistry (with Dean’s approval)
CHEM 230 General Organic Chemistry
or BIOL 210 General Botany
or BIOL 230 General Zoology

Professional Education Requirements

Professional Education Requirements: 29 cr. hrs.

AGED 120 Orientation to Agriculture and Extension Education 1 cr.
AGED 201 Introduction to Agricultural and Extension Education 2 cr.
PSYC 330 The Exceptional Child 3 cr.
TED 212 Educational Psychology: Middle and Secondary Education (writing intensive) 5 cr.
TED 422 Content Area Literacy in Middle and Secondary Schools 3 cr.
TED 440 Techniques of Middle/Secondary Education: Agriculture 3 cr.
TED 475 Student Teaching: K-12
or TED 479 Intern Teaching: Secondary 12 cr.

Agricultural Education Major

Foundation Requirements–Select five: 14-15 cr. hrs.

AGEC 230 Agricultural Economics I 3 cr.
AGEN 150 Agricultural and Environmental Engineering Technology 3 cr.
ANSC 111 Introduction to Animal Science 3 cr.
CROP 161 or HORT 161 Introduction to Plant Science 3 cr.
ESM 109 Introduction to Forestry 2 cr.
FDSC 110 The Science of Food 3 cr.
FDSC 113 Introduction to Food Science 3 cr.
SOIL 210 Introductory Soil Science 3 cr.

Major Requirements: 30-32 cr. hrs.

Choose 7 courses from the following (19-22):
AGED 202 Leadership and Group Dynamics 3 cr.
AGED 275 Early Field Experience 1 cr.
AGED 369 Philosophy of Vocational and Cooperative Education 4 cr.
AGED 403 Agricultural Education Programs and Youth Organizations 3 cr.
AGED 462 Curriculum Design in Vocational Education 3 cr.
ANSC 231 Principles of Nutrition 3 cr.
CROP 257 Genetics or ANSC 257 Genetics 3 cr.
ESM 300 Environmental Education 3 cr.
HORT 169 Introduction to Horticulture 3 cr.

Choose one of the following (2-3 cr.):
AGEC 240 Cooperatives 2 cr.
AGEC 355 Agricultural Markets and Prices 3 cr.

Choose one of the following (3 cr.):
AGEC 360 Farm Management 3 cr.
AGEC 361 Horticultural Business Management 3 cr.
AGEC 468 Agribusiness Firm Management 3 cr.

Choose one of the following (3 cr.):
AGEN 240 Structures 3 cr.
AGEN 255 Welding and Metal Manufacturing 3 cr.
AGEN 320 Internal Combustion Engines 3 cr.
AGEN 333 Landscape Construction 3 cr.
AGEN 350 Applied Electricity 3 cr.
AGEN 440 Soil and Water Conservation 4 cr.

Directed CAFES Electives: 5-7 cr. hrs.
General Education Requirements

As listed on pages 18-19 of the printed catalog with the following exceptions:

Ethical Citizenship: ESM 105 Introduction to Environmental Studies, required for Environmental Engineering Technology Option
Scientists: 8-9 cr. hrs.
BIOL 100 or BIOL 150 or GEOL 101, CHEM 121 or 110 with Dean’s approval. PHYS 151 or 161 required.
Mathematics: MATH 156 or MATH 166 required 3 cr. hrs.

Foundation Courses in Agriculture 12 cr. hrs.
AGEN 150 Agricultural and Environmental Engineering Technology 3
SOIL 210 Introductory Soil Science 3 cr.
AGEC 230 Agricultural Economics I 3 cr.
Choose one of the following: 3 cr.
ANSC 111 Introduction to Animal Science
FDSC 112 Introduction to Food Science
CROP 161 Introduction to Plant Science
HORT 161 Introduction to Plant Science

Agricultural Engineering Technology Major

Major Requirements 55-60 Total Credits
Core Courses: 29 cr. hrs.
AGEN 185 Agricultural Engineering Technology Professional Seminar I 1 cr.
AGEN 240 Structures 3 cr.
AGEN 285 Agricultural Engineering Technology Professional Seminar II 1 cr.
AGEN 350 Applied Electricity 3 cr.
AGEN 352 Food and Process Engineering 3 cr.
AGEN 355 Irrigation and Drainage (writing intensive) 3 cr.
AGEN 385 Agricultural Engineering Technology Professional Seminar III 1 cr.
AGEN 485 Agricultural Engineering Technology Professional Seminar IV 1 cr.
GENG 121 Engineering Drawing 3 cr.
GENG 245 Materials Design Requirements 3 cr.
GENG 265 Engineering Graphics 3 cr.
GENG 450 Engineering Project Management 3 cr.
PHYS 156 General Physics Laboratory 1 cr.
or PHYS 101 General Physics Laboratory

Choose one of the following three options:
Agricultural Engineering Technology Option 26-29 cr. hrs.
AGEN 320 Internal Combustion Engines 3 cr.
AGEN 361 Machinery and Power Mechanics 4 cr.
AGEN 363 Precision Agriculture Technology 3 cr.
AGEN 451 Agricultural Instrumentation and Electronics (writing intensive) 2 cr.
GENG 235 Surveying 3 cr.
Choose two from:
AGEN 425 Environmental Engineering Technology 4 cr.
AGEN 443 Controlled Environment Systems 3 cr.
AFES 492 Experiential Learning in Agriculture, Food, and Environmental Science 3 cr.
Choose one from:
AGEN 365 Waste Management Systems (writing intensive) 3 cr.
AGEN 389 Agricultural Engineering Technology: 1/4 Scale Tractor 3 cr.
Choose one from:
AGEN 255 Welding and Metal Manufacturing 3 cr.
GENG 201 Industrial Safety 2 cr.
GENG 236 Advanced Surveying 3 cr.
GENG 251 Static Strength of Materials 3 cr.
GENG 252 Dynamics 3 cr.
PHYS 152 General Physics II 4 cr.
or PHYS 162 General Physics II

Environmental Engineering Technology Option 27-28 cr. hrs.
CHEM 122 General Chemistry II 5 cr.
CHEM 230 General Organic Chemistry 3 cr.
BIOL 324 Microbiology 4 cr.
AGEN 365 Waste Management Systems (writing intensive) 3 cr.
AGEN 425 Environmental Engineering Technology 4 cr.
AGEN 451 Agricultural Instrumentation and Electronics (writing intensive) 2 cr.
GENG 235 Surveying 3 cr.
Choose one from:
GEOL 445 Hydrogeology 3 cr.
AGEC 450 Introduction to Natural Resource Economics 3 cr.
ESM 360 Applied Hydrology and Water Quality 4 cr.

Mechanized Systems Management Option 28-31 cr. hrs.
GENG 201 Industrial Safety 2 cr.
ENGL 367 Technical Writing 3 cr.
AGEC 305 Agricultural Accounting 3 cr.
AGEC 320 Statistical Methods 3 cr.
AGEC 360 Farm Management 3 cr.
AGEC 368 Professional Selling (writing intensive) 3 cr.
AGEC 468 Agribusiness Firm Management (writing intensive) 3 cr.
Choose one from:
AGEN 425 Environmental Engineering Technology 4 cr.
AGEN 443 Controlled Environment Systems 3 cr.
AGEN 451 Agricultural Instrumentation and Electronics (writing intensive) 2 cr.
AFES 492 Experiential Learning in Agriculture, Food, and Environmental Science
Choose two from:
AGEN 320 Internal Combustion Engines 3 cr.
AGEN 361 Machinery and Power Mechanics 4 cr.
AGEN 363 Precision Agriculture Technology
AGEN 365 Waste Management Systems (writing intensive) 3 cr.
Required Supporting Courses: 4-14 cr. hrs.
Computer Literacy - students who are not prepared to use word processing and spreadsheet programs to complete assignments in Agricultural Engineering Technology courses should elect CSIS 105 in their freshman year.

Agricultural Engineering Technology Minor

Minor Requirements 22 Total Credits
Required Courses: 6 cr. hrs.
AGEN 150 Agricultural and Environmental Engineering Tech 3
GENG 265 Engineering Graphics 3
Complete one of the following sets of courses: 7-10 cr. hrs.
1 AGEN 320 Internal Combustion Engines 3
AGEN 361 Machinery and Power Mechanics 4
AGEN 465 Fluid Power Systems 2
2 AGEN 350 Applied Electricity 3
AGEN 451 Agricultural Instrumentation and Electronics (writing intensive) 2
GENG 368 CAD Applications 3
3 AGEN 352 Food and Process Engineering 3
AGEN 455 Advanced Food and Process Engineering 3
GENG 368 CAD Applications 3
4 AGEN 240 Structures 3
AGEN 333 Landscape Construction 3
GENG 450 Engineering Project Management 3
5 AGEN 355 Irrigation and Drainage (writing intensive) 3
AGEN 365 Waste Management Systems (writing intensive) 3
AGEN 425 Environmental Engineering Technology 4
Directed electives in Agricultural Engineering Technology or General Engineering: 6-9 cr. hrs.
Agronomy (CROP)
Department of Plant and Earth Science
College of Agriculture, Food and Environmental Sciences

324 Agriculture Science Hall
(715) 425-3345

See Crops and Soils
Agricultural Studies
College of Agriculture, Food and Environmental Sciences

Dean’s Office
210 Agriculture Science Hall
(715) 425-3841
www.uwrf.edu/college-of-agriculture/

Agricultural Studies is a four-year Bachelor of Science degree program. Students majoring in Agricultural Studies will acquire broad knowledge in the fields of agriculture, food and the environmental sciences. Students may also pursue individual special interests through elective classes. In consultation with an adviser, students may choose elective courses in areas such as agronomy, animal science, communications, marketing, management, international studies, etc. The Agricultural Studies major also requires completion of a minor in an agricultural subject area.

A minor in any agricultural subject area is required.

General Education Requirements

As listed on pages 18-19 with the following exceptions:
Social and Behavioral: ESM 105, Introduction to Environmental Studies
Sciences: CHEM 121, General Chemistry or CHEM 120, Introduction to General Chemistry
Mathematics: MATH 146, College Algebra, or equivalent

Foundation Requirements 15 cr. hrs.
AGEC 230 Agricultural Economics I 3 cr.
AGEN 150 Agricultural and Environmental Engineering Technology 3 cr.
CROP 161 Introduction to Plant Science
or HORT 161 Introduction to Plant Science 3 cr.
ANSC 111 Introduction to Animal Science 3 cr.
SOIL 210 Introductory Soil Science 3 cr.

Agricultural Studies Major

Major Requirements 34 Total Credits
Choose one course from the following (3 cr.):
AGEC 305 Agricultural Accounting 3 cr.
AGEC 345 Agricultural Law 3 cr.
AGEC 355 Agricultural Markets and Prices 3 cr.
AGEC 360 Farm Management 3 cr.
AGEC 365 Agricultural Finance 3 cr.
Choose one course from the following (3 cr.):
AGED 110 Agricultural Communications 3 cr.
AGED 202 Leadership and Group Dynamics 3 cr.
Choose one course from the following (3 cr.):
AGEN 240 Structures 3 cr.
AGEN 320 Internal Combustion Engines 3 cr.
AGEN 325 Alternate Energy Systems 3 cr.
AGEN 333 Landscape Construction 3 cr.
AGEN 350 Applied Electricity 3 cr.
AGEN 352 Food and Process Engineering 3 cr.
AGEN 355 Irrigation and Drainage (writing intensive) 3 cr.
AGEN 361 Machinery and Power Mechanisms 3 cr.
AGEN 363 Precision Agriculture Technology 3 cr.
AGEN 365 Waste Management Systems (writing intensive) 3 cr.

Choose one course from the following (3-4 cr.):
ANSC 231 Principles of Nutrition 3 cr.
ANSC 257 Genetics 3 cr.
ANSC 260 Animal Physiology 4 cr.

Choose one course from the following (3 cr.):
CROP 263 Forage Crop Production 3 cr.
CROP 266 Corn and Soybean Production (writing intensive) 3 cr.
HORT 169 Introduction to Horticulture 3 cr.

Choose one course from the following (4 cr.):
SOIL 311 Soil Fertility 4 cr.
SOIL 440 Soil and Water Conservation 4 cr.

Also take:
FDSC 112 Introduction to Food Science 3 cr.
CHEM 230 General Organic Chemistry 3 cr.

and a 1-credit seminar class from one of the following (1 cr.):
ANSC 485, DASC 485, CROP 485, HORT 485, ESM 485, or SOIL 485

Directed Electives: 7-8 cr. hrs.

Minor Required for the Agricultural Studies Major 22 cr. hrs.

Agricultural Studies Minor

Minor Requirements 22 Total Credits
Choose four courses from the following (12 cr. hrs.):
ANSC 111 Introduction to Animal Science 3 cr.
CROP 161 Introduction to Plant Science 3 cr.
or HORT 161 Introduction to Plant Science
AGEC 230 Agricultural Economics I 3 cr.
FDSC 110 The Science of Food 3 cr.
ESM 105 Introduction to Environmental Studies 3 cr.
SOIL 210 Introductory Soil Science 3 cr.
AGED 110 Agricultural Communications 3 cr.

Directed Electives (10 cr. hrs.)
Agricultural electives at the 200 level or above.
Courses meeting requirements for an Agriculture, Food and Environmental Sciences major cannot be counted as agricultural electives in this minor.
Students with majors in the following areas are not eligible to receive this minor: Agricultural Business, Agricultural Engineering Technology, Agricultural Studies, Animal Science, Crop and Soil Science, Dairy Science.
General Education Requirements

As listed on pages 18-19 with the following exceptions:
Sciences 8-9 cr. hrs.
BIOL 150 is required
CHEM 121 or 110 with Dean’s Approval

Foundation Courses in Agriculture: 15 cr. hrs.
Required Courses:
ANSC 111 Introduction to Animal Science 3 cr.
AGEC 230 Agricultural Economics 3 cr.
Select 2 from the following:
FDSC 112 Introduction to Food Science 3 cr.
AGEN 150 Introduction to Ag Engineering 3 cr.
CROP 161 Introduction to Plant Science 3 cr.
or HORT 161 Introduction to Plant Science or 3 cr.
SOIL 210 Introduction to Soils 3 cr.

Animal Science Major

Major Requirements 42-44 Total Credits
Required Courses: 25 cr. hrs.
ANSC 231 Principles of Nutrition 3 cr.
ANSC 232 Applied Feeds and Feeding 3 cr.
ANSC 257 Genetics 3 cr.
ANSC 260 Animal Physiology 4 cr.
ANSC 345 Animal Health 2 cr.
ANSC 346 Principles of Animal Breeding 3 cr.
ANSC 433 Advanced Nutrition 3 cr.
ANSC 448 Reproductive Physiology 3 cr.
ANSC 485 Seminar in Animal Science 1 cr.

Species Emphasis:
Select A or B below

A – Meat Animals 9 cr. hrs.
ANSC 140 Meat and Meat Products 3 cr.
Choose one from the following:
ANSC 365 Poultry Production 3 cr.
ANSC 366 Swine Production 3 cr.
ANSC 367 Beef Production 3 cr.
ANSC 368 Sheep Production 3 cr.
Choose one from the following:
FDSC 240 Meat Processing 3 cr.
ANSC 467 Feedlot Management 3 cr.
Another production course 3 cr.

B – Equine 10 cr. hrs.
ANSC 167 Equine Management and Equitation 2 cr.
ANSC 168 Equine Equitation and Management Lab 2 cr.
ANSC 369 Equine Production 3 cr.
Choose one from the following:
ANSC 261 Advanced Horsemanship 3 cr.
ANSC 268 Balanced Seat Applications 3 cr.

Options: (Choose one option)

Management Option
Required Courses: 10 cr. hrs.
CHEM 230 Gen Organic Chemistry 3 cr.
AGBI 251 Agricultural Biochemistry 3 cr.
BIOL 324 Microbiology 4 cr.
Directed Electives: 12 cr. hrs.
Choose two courses from:
AGEC 305 Agricultural Accounting 3 cr.
AGEC 345 Agricultural Law 3 cr.
AGEC 355 Agricultural Markets and Prices 3 cr.
AGEC 360 Farm Management 3 cr.
AGEC 365 Agricultural Finance 3 cr.
Select a total of six credits of 200 level or higher courses from AGEC, AGEN, CROP, or FDSC. 6 cr.

Science Option 18 cr. hrs.
CHEM 231 Organic Chemistry I 3 cr.
CHEM 232 Organic Chemistry II 3 cr.
CHEM 236 Organic Chemistry Lab I 1 cr.
or CHEM 246 Synthetic and Analytical Techniques I or 2 cr.
CHEM 237 Organic Chemistry Lab II 1 cr.
or CHEM 247 Synthetic and Analytical Techniques II or 1 cr.
PHYS 151 General Physics (meets Gen Ed requirement) 4 cr.
ANSC 341 Biometrics 3 cr.
MATH 147 College Algebra and Trigonometry 3 cr.
Other required courses for the Science Option: 12 cr. hrs.
CHEM 122 General Chemistry I 5 cr.
CHEM 361 Biochemistry I 3 cr.
BIOL 324 Microbiology 4 cr.
Also select one of the following: 2-3 cr. hrs.
ANSC 447 Endocrinology 2 cr.
BIOL 230 General Zoology 3 cr.
BIOL 240 Cell Biology 3 cr.
CHEM 362 Biochemistry II 3 cr.
CHEM 461 Pharmacology 3 cr.
PHYS 152 General Physics II 4 cr.
Alternative Option 22-24 cr. hrs.
Any minor of 22-24 credits or second major 10 cr. hrs.
(other than Animal Science or Dairy Science).
**In addition to the minor the following three courses are required.**
CHEM 230 General Organic Chemistry 3 cr.
AGBI 251 Agricultural Biochemistry 3 cr.
BIOL 324 Microbiology 4 cr.

**Animal Science Minor**

**Minor Requirements 22 Total Credits**
**Required Courses: 12 cr. hrs.**
ANSC 111 Introduction to Animal Science 3 cr.
ANSC 231 Principles of Nutrition 3 cr.
ANSC 232 Applied Feeds and Feeding 3 cr.
ANSC 257 Genetics 3 cr.
**Electives 10 cr. hrs.**
A production course from ANSC 365, 366, 367, 368 or 369
Any other Animal Science course
Anthropology (ANTH)
Department of Sociology, Anthropology and Criminal Justice
College of Arts and Sciences

326 Kleinpell Fine Arts Building
(715) 425-3992

www.uwrf.edu/sociology/

Edward Robins–Chair, Brian Copp, Tricia Davis, Jean Hector Faley, Clifford Mottaz, Timothy E. Nissen, Rich Wallace

Anthropology Minor

Anthropology Minor: 24 Total Credits

Required Courses: 12 cr. hrs.
SOCI 100 Introduction to Sociology 3 cr. (counts 3 cr. hrs. in general education)
or ANTH 100 Introduction to Anthropology (counts 3 cr. hrs. in general education)

Choose one of the following courses:
SOCI 221 Global Perspectives on Women 3 cr.
ANTH 221 Global Perspectives on Women 3 cr.
ANTH 225 Sociology of Race and Ethnicity 3 cr.

Take the following courses:
ANTH 247 Human and Cultural Origins 3 cr.
ANTH 348 Faces of Culture 3 cr.

Choose one of the following courses:
ANTH 228 Native American Cultures 3 cr.
SOCI 338 Global Perspectives on Health and Disease 3 cr.
ANTH 338 Global Perspectives on Health and Disease 3 cr.
SOCI 211 Global Perspectives on Children 3 cr.
ANTH 211 Global Perspectives on Children 3 cr.

Electives in Sociology/Anthropology: 12 cr. hrs.
At least 6 credits must be at the 300/400 level.
Art (ART)
Department of Art
College of Arts and Sciences

172 Kleinpell Fine Arts
(715) 425-3266

www.uwrf.edu/art/

Michael Padgett-Chair, Carol Chase, Morgan Clifford, Jim Engebretson, Bernice Ficek-Swenson, David Heberlein, Lynn Jermal, Randy Johnston, Patrice Wernlund

Careers in Advertising Design and Computer Graphics. Students interested in a career in advertising design and computer graphics are advised to take a Broad Area Art Degree choosing options within the degree to become as broadly and professionally prepared as possible. An internship is recommended in the senior year. Adviser: M. Padgett.

Careers in Art Therapy. Students interested in a career in art therapy are advised to take an art major degree with a psychology minor. A program sheet to guide minor elective choices is available in the art department. Graduate school (M.A.) is required for registration in the field. Internships are available for senior students. Adviser: L. Jermal.

Semester Abroad Program. Each fall semester, art majors may participate in the Study Abroad Program, do an independent research project in a European country of their choice, and receive six credit hours in ART 378 and six credit hours of INTS 377. Participants must meet weekly for preparatory sessions during the spring semester preceding the experience abroad. Adviser: D. Heberlein.

Internship Program. The art department offers a number of opportunities for students to gain on-the-job experience as a supplement to their academic preparation. Students work under the direct supervision of a job supervisor and a member of the art faculty. See ART 379 for details. Adviser: M. Padgett.

Art Materials. Students are expected to buy some materials for most art courses. Material fees are required for some studio areas.

General Education Requirements

BA and BS Liberal Arts majors as listed on pages 22-23.
BS Education majors as listed on pages 31-32.

Bachelor of Fine Arts - Liberal Arts

Bachelor of Fine Arts - Liberal Arts: 66 Total Credits
(no minor required)

Foundation Courses in Art: 21 cr. hrs.
ART 121 Design Foundation 3 cr.
ART 131 Drawing I 3 cr.
ART 132 Drawing II 3 cr.
ART 211 Western Art to 1500 3 cr.
ART 212 Art History Since 1500 3 cr.
ART 309 Gallery Techniques 1-3 cr.
ART 320 Drawing from the Figure 3 cr.
ART 485 Art Seminar 2 cr.

Required Courses: 4 cr. hrs.
Choose 18 credits from:
ART 225 Advertising Design I 3 cr.
ART 226 Introduction to Fibers 3 cr.
ART 227 Introduction to Clay 3 cr.
ART 228 Introduction to Metal 3 cr.
ART 229 Introduction to Glass 3 cr.
ART 235 Introduction to Black and White Photography 3 cr.
ART 236 Introduction to Printmaking 3 cr.
ART 238 Introduction to Painting 3 cr.

**Major Studio Area-Choose 15 credits from:**
ART 326 Studio-Fibers 3 cr.
ART 327 Studio-Clay 3 cr.
ART 328 Studio-Metals 3 cr.
ART 329 Studio-Glass 3 cr.
ART 335 Studio-Photography 3 cr.
ART 336 Studio-Printmaking 3 cr.
ART 338 Studio-Painting 3 cr.

**Minor Studio Area-Choose 6 credits.**
May choose from major studio courses listed above or the following:
ART 407 Introduction to Art Therapy 3 cr.

**Choose 4 credits from:**
ART 311 American Art to 1865 3 cr.
ART 312 American Art Since 1865 3 cr.
ART 314 Art of China, India and Japan 2 cr.
ART 318 Latin American Art 2 cr.

**Electives: 6 cr. hrs.**
Outside the Art Department with prior approval of advisor.

**Required Supporting Courses 8 cr. hrs.**
ANTH 100 Introduction to Anthropology 3 cr.
PHIL 235 Philosophy of the Arts 3 cr.
ENGL 231 The Short Story 3 cr.
ENGL 232 Contemporary Drama 3 cr.
ENGL 233 Introduction to Poetry 3 cr.
ENGL 234 Modern Novels 3 cr.
ENGL 341 European Literature 3 cr.
HUM 255 Arts and Ideas I 4 cr.
HUM 256 Arts and Ideas II 4 cr.
IHUM 498 Senior Level Interdisciplinary Capstone-Humanities 2 cr.
Choose a foreign language course at intermediate or higher level 3 cr.
MUS 200 American Music 3 cr.
MUS 234 Music History and Literature I 4 cr.
MUS 235 Music History and Literature II 4 cr.
SCTA 121 Acting I: Basic Techniques 3 cr.
SCTA 131 Design for the Theatre 3 cr.
SCTA 200 Introduction to Film Studies 3 cr.

**Broad Area Art Major-Liberal Arts or Education Broad Area Art Major**

**Broad Area Art Major-Liberal Arts: 56 Total Credits**
**Education Broad Area Art Major: 56 Total Credits**
(no minor required)

**Foundation Courses in Art: 17-21 cr. hrs.**
ART 121 Design Foundation 3 cr.
ART 131 Drawing I 3 cr.
ART 132 Drawing II 3 cr.
ART 211 Western Art to 1500 3 cr.
ART 212 Art History Since 1500 3 cr.
ART 253 Art in the Schools (Education Majors only) 4 cr.
ART 485 Art Seminar 2 cr.

**Required Courses Major Program: 33-37 cr. hrs.**

**Choose 18 credits from:**
ART 225 Advertising Design I 3 cr.
ART 226 Introduction to Fibers 3 cr.
ART 227 Introduction to Clay 3 cr.
ART 228 Introduction to Metal 3 cr.
ART 229 Introduction to Glass 3 cr.
ART 235 Introduction to Black and White Photography 3 cr.
ART 236 Introduction to Printmaking 3 cr.
ART 238 Introduction to Painting 3 cr.

**Liberal Arts choose 18; Education choose 15 credits from:**
ART 303 Advertising Design II 3 cr.
ART 309 Gallery Techniques 1-3 cr.
ART 320 Drawing from the Figure 3 cr.
ART 326 Studio-Fibers 3 cr.
ART 327 Studio-Clay 3 cr.
ART 328 Studio-Metals 3 cr.
ART 329 Studio-Glass 3 cr.
ART 335 Studio-Photography 3 cr.
ART 336 Studio-Printmaking 3 cr.
ART 338 Studio-Painting 3 cr.
ART 407 Introduction to Art Therapy 3 cr.
ART 408 Art Therapy Group Process 3 cr.

**Liberal Arts choose 3 credits; Education choose 2 credits from:**
ART 311 American Art to 1865 3 cr.
ART 312 American Art Since 1865 3 cr.
ART 314 Art of China, India and Japan 2 cr.
ART 318 Latin American Art 2 cr.

**Art Major-Liberal Arts (with minor or additional major)**

**Major Requirements 36 Total Credits**

**Foundation Courses in Art: 17 cr. hrs.**
ART 121 Design Foundation 3 cr.
ART 131 Drawing I 3 cr.
ART 132 Drawing II 3 cr.
ART 211 Western Art to 1500 3 cr.
ART 212 Art History Since 1500 3 cr.
ART 485 Art Seminar 2 cr.

**Required Courses: 20 cr. hrs.**

**Choose 12 credits from:**
ART 225 Advertising Design I 3 cr.
ART 226 Introduction to Fibers 3 cr.
ART 227 Introduction to Clay 3 cr.
ART 228 Introduction to Metal 3 cr.
ART 229 Introduction to Glass 3 cr.
ART 235 Introduction to Black and White Photography 3 cr.
ART 236 Introduction to Printmaking 3 cr.
ART 238 Introduction to Painting 3 cr.

**Choose 7 credits from:**
- ART 303 Advertising Design II 3 cr.
- ART 309 Gallery Techniques 1-3 cr.
- ART 320 Drawing from the Figure 3 cr.
- ART 326 Studio-Fibers 3 cr.
- ART 327 Studio-Clay 3 cr.
- ART 328 Studio-Metals 3 cr.
- ART 329 Studio-Glass 3 cr.
- ART 335 Studio-Photography 3 cr.
- ART 336 Studio-Printmaking 3 cr.
- ART 338 Studio-Painting 3 cr.
- ART 407 Introduction to Art Therapy 3 cr.
- ART 408 Art Therapy Group Process 3 cr.

**Art Minor**

**Art Minor: 24 Total Credits**

**Foundation Courses in Art: 9 cr. hrs.**

**Choose 9 credits from:**
- ART 121 Design Foundation 3 cr.
- ART 131 Drawing I 3 cr.
- ART 211 West Art to 1500 3 cr.
- ART 212 West Art Since 1500 3 cr.

**Electives in Art: 6 cr. hrs.**
- ART 225 Advertising Design I 3 cr.
- ART 226 Introduction to Fibers 3 cr.
- ART 227 Introduction to Clay 3 cr.
- ART 228 Introduction to Metal 3 cr.
- ART 229 Introduction to Glass 3 cr.
- ART 235 Introduction to Black and White Photography 3 cr.
- ART 236 Introduction to Printmaking 3 cr.
- ART 238 Introduction to Painting 3 cr.

**Select from any Art courses: 9 cr. hrs.**
The biology department offers a 34-credit major and a 22 credit minor for liberal arts and education majors. A degree with a biology major also requires completion of a minor and additional supporting courses in chemistry, mathematics, and physics. Three options are offered for the biology major:
1) General Biology option, for students who want to be broadly educated in biology or who are seeking life science certification;
2) Biomedical Sciences option, appropriate for pre-professional majors and students planning to go into laboratory research;
3) Field Biology option, for students interested in ecological research or careers in field biology.

General Education Requirements

BA and BS Liberal Arts majors as listed on page 22-23.
BS Education majors as listed on page 31-32.
Courses in the major or required supporting courses may be double counted to satisfy the General Education science requirements. Therefore, the total General Education credit hour requirement is reduced by the courses that can be double-counted.

Biology Major–Liberal Arts and Education

Major requirements 34 Total Credits
General Biology Option
Core Requirements: 21 cr. hrs.
BIOL 110 Freshman Colloquium 1 cr.
BIOL 150 General Biology 3 cr.
BIOL 210 General Botany 3 cr.
BIOL 230 General Zoology 3 cr.
BIOL 240 Cell and Molecular Biology 3 cr.
BIOL 350 Genetics and Evolution (writing intensive) 3 cr.
BIOL 360 Ecology (writing intensive) 3 cr.
BIOL 410 Senior Colloquium 1 cr.
Biology 481 Seminar (Liberal Arts majors) 1 cr.
or Biology 471 Lab Experiences (Education majors)
Directed Electives: 13 cr. hrs.
Choose from any Biology courses except BIOL 100, 253

Biomedical Sciences Option
Core Requirements: 23 cr. hrs.
BIOL 110 Freshman Colloquium 1 cr.
BIOL 150 General Biology 3 cr.
BIOL 230 General Zoology 3 cr.
BIOL 240 Cell and Molecular Biology 3 cr.
BIOL 341 Anatomy and Physiology I 4 cr.
BIOL 342 Anatomy and Physiology II 4 cr.
BIOL 350 Genetics and Evolution (writing intensive) 3 cr.
BIOL 410 Senior Colloquium 1 cr.
BIOL 481 Seminar 1 cr.

**Directed Electives: 11 cr. hrs.**

*Choose from the following courses.*
At least 6 elective credits must be Biology courses.

*BIOL 235 Comparative Anatomy 4 cr.*
*BIOL 243 Introduction to Biological Greek and Latin 1 cr.*
*BIOL 295 Laboratory Research Experience 2 cr.*
*BIOL 305 Applications in Molecular Biology 3 cr.*
*BIOL 307 Human Heredity 2 cr.*
*BIOL 324 Microbiology 4 cr.*
*BIOL 345 Immunology 3 cr.*
*BIOL 353 Histology 4 cr.*
*BIOL 379 Internship 3-6 cr.*
*BIOL 451 Molecular Biology 4 cr.*
*BIOL 453 Virology 3 cr.*
*BIOL 463 Animal Cell Culture 3 cr.*
*BIOL 495 Undergraduate Research 3 cr.*
*BIOL 499 Independent Study 1-3 cr.*
*ANSC 231 Principles of Nutrition 3 cr.*
*ANSC 447 Endocrinology 2 cr.*
*ANSC 448 Reproductive Physiology 3 cr.*

**Field Biology Option**

**Core Requirements: 17 cr. hrs.**

*BIOL 110 Freshman Colloquium 1 cr.*
*BIOL 150 General Biology 3 cr.*
*BIOL 210 General Botany 3 cr.*
*BIOL 230 General Zoology 3 cr.*
*BIOL 296 Field Research Experience 2 cr.*
*BIOL 360 Ecology (writing intensive) 3 cr.*
*BIOL 410 Senior Colloquium 1 cr.*
*BIOL 481 Seminar 1 cr.*

**Directed Electives: 17 cr. hrs.**

*Choose from the following courses.*
At least 11 elective credits must be Biology courses.

*BIOL 240 Cell and Molecular Biology 3 cr.*
*BIOL 243 Introduction to Biological Greek and Latin 1 cr.*
*BIOL 305 Applications in Molecular Biology 3 cr.*
*BIOL 310 Identification of Plants 3 cr.*
*BIOL 314 Plant Pathology 3 cr.*
*BIOL 320 Plant Physiology 3 cr.*
*BIOL 324 Microbiology 4 cr.*
*BIOL 333 Entomology 3 cr.*
*BIOL 344 Wildlife Biology 4 cr.*
*BIOL 350 Genetics and Evolution (writing intensive) 3 cr.*
*BIOL 354 Freshwater Biology 3 cr.*
*BIOL 355 Environmental Law 3 cr.*
or *ESM 303 Environmental Policies and Administration*
*BIOL 379 Internship 3-6 cr.*
BIOL 434 Ichthyology 3 cr.
BIOL 444 Ornithology 3 cr.
BIOL 495 Undergraduate Research 3 cr.
BIOL 499 Independent Study 1-3 cr.
ESM 220 Environmental Sustainability: Theories, Issues, and Management 3 cr.
ESM 333 Remote Sensing of Natural Resources 3 cr.
ESM 343 Woodlot Management 3 cr.
ESM 360 Applied Hydrology and Water Quality 4 cr.
ESM 413 Environmental Analysis 4 cr.
GEOG 250 Cartography I 3 cr.
GEOG 360 Introduction to GIS 3 cr.
GEOL 202 Oceanography 2 cr.
GEOL 269 Environmental Geology 2 cr.
GEOL 445 Hydrogeology 3 cr.

**Required Supporting Courses: 21-22 cr. hrs.**
**Required for all options in the biology major.**
Some professional schools and graduate programs may require additional credits in Chemistry, Math and/or Physics; consult your adviser.
CHEM 121,122 General Chemistry I and II 10 cr.
PHYS 151,156
or PHYS 161, 101 General Physics I and Lab 4 cr.
MATH 147 College Algebra and Trigonometry 3 cr.

**Liberal Arts majors choose one statistics course:**
MATH 216 Elementary Statistical Concepts 3 cr.
MATH 226 Fundamentals of Statistics 3 cr.
MATH 326 Applied Statistics 3 cr.
or ANSC 341 Biometrics 3 cr.

**Education majors take:**
GEOL 101, 102 Introductory Geology and Lab 4 cr.

**Biology Minor**

**Minor Requirements 22 Total Credits**

**Required Courses:**
BIOL 150 General Biology 3 cr.

**Liberal Arts majors take:**
BIOL 210
or BIOL230 General Botany or General Zoology 3 cr.

**Directed Electives: 16 cr. hrs.**
Choose from any Biology courses except Biol 100, 253.
At least one course must be at the 300 level or above.

**Education majors take:**
BIOL 210 General Botany 3 cr.
BIOL 230 General Zoology 3 cr.
BIOL 240 Cell and Molecular Biology 3 cr.
BIOL 350 Genetics and Evolution (writing intensive) 3 cr.
BIOL 360 Ecology (writing intensive) 3 cr.

**Directed Electives: 4 cr. hrs.**
Choose from any Biology courses except Biol 100, 253.
Biotechnology (BIOT) 
Interdisciplinary Program

261 Centennial Science Hall 
(715) 425-3577 
www.uwrf.edu/biotech


The Biotechnology major is an interdisciplinary program that is focused on the molecular basis of life processes and the techniques utilized to both study and control these processes under in vivo and in vitro conditions. The Biotechnology curriculum draws upon the expertise and course offerings of the participating departments: Biology, Chemistry, Animal and Food Science, and Plant and Earth Science. Students complete core programs in Biology and Chemistry, which lead to minors in both areas, and a 30-semester hour, interdepartmental course requirement. The Biotechnology major is designed to provide those students who are interested in pursuing careers at the interface of biology and chemistry with the academic background required to either secure entry level positions in the biotechnology industry or to continue their education in graduate or professional schools. A student may elect to complete a B.S. degree in Biotechnology in either the College of Arts and Sciences, (715) 425-3777, or the College of Agriculture, Food and Environmental Sciences (715) 425-3841.

General Education Requirements

BA and BS Liberal Arts majors as listed on pages 22-23. 
BS Agriculture, Food and Environmental Sciences majors as listed on pages 18-19.

Courses in the major or required supporting courses may be double counted to satisfy the General Education science requirements. Therefore, the total General Education credit hour requirement is reduced by the courses that can be double-counted.

Biotechnology Major

Biotechnology Major: 71 Total Credits
Core Requirements: 41 cr. hrs.

Biology Core 19 cr. hrs.
BIOL 150 General Biology 3 cr.
BIOL 210 General Botany
or BIOL 230 General Zoology 3 cr.
BIOL 240 Cell and Molecular Biology 3 cr.
BIOL 324 Microbiology 4 cr.
BIOL 350 Genetics and Evolution (writing intensive) 3 cr.
BIOL 453 Virology
or BIOL 345 Immunology 3 cr.

Chemistry Core 22 cr. hrs.
CHEM 121 General Chemistry I 5 cr.
CHEM 122 General Chemistry II 5 cr.
CHEM 231 Organic Chemistry I 3 cr.
CHEM 232 Organic Chemistry II 3 cr.
CHEM 236 Organic Chemistry Lab I 1 cr.
CHEM 237 Organic Chemistry Lab II 1 cr.
CHEM 251 Analytical Chemistry 2 cr.
CHEM 256 Analytical Chemistry Lab 1 cr.
CHEM 355 Separation Science Laboratory 1 cr.

**Interdepartmental Course Requirements 30 cr. hrs.**

**Required Courses 22 cr. hrs.**
- FDSC 335 Food Microbiology 4 cr.
- FDSC 460 Fermentation Technology 3 cr.
- CHEM 361 Biochemistry I 3 cr.
- CHEM 362 Biochemistry II 3 cr.
- CHEM 366 Biochemistry Lab (writing intensive) 1 cr.
- HORT 369 Plant Tissue Culture: Theory and Practice
  or BIOL 463 Animal Cell Culture 3 cr.
- BIOL 451 Molecular Biology 4 cr.
- BIOT 480 Biotechnology Seminar 1 cr.

**Directed Electives: 8 cr. hrs.**
Six credits must be at the 300/400 level.
Four credits of internship may be substituted for the 300/400 level course requirement.
- ANSC 111 Introduction to Animal Science 3 cr.
- ANSC 231 Principles of Nutrition 3 cr.
- ANSC 260 Animal Physiology 4 cr.
- ANSC 341 Biometrics 3 cr.
- ANSC 346 Principles of Animal Breeding (writing intensive) 3 cr.
- ANSC 447 Endocrinology 2 cr.
- ANSC 448 Reproductive Physiology 3 cr.
- ANSC 490 Independent Study in Animal Science 1-3 cr.
- BIOL 210 General Botany
  or BIOL 230 General Zoology 3 cr.
- BIOL 295 Laboratory Research Experience 2 cr.
- BIOL 314 Plant Pathology 3 cr.
- BIOL 320 Plant Physiology 3 cr.
- BIOL 341 Anatomy and Physiology I 4 cr.
- BIOL 342 Anatomy and Physiology II 4 cr.
- BIOL 345 Immunology
  or BIOL 453 Virology 3 cr.
- BIOL 353 Histology 4 cr.
- BIOL 360 Ecology (writing intensive) 3 cr.
- BIOL 495 Undergraduate Research 3 cr.
- BIOL 499 Independent Study 1-3 cr.
- BIOL 463 Animal Cell Culture
  or HORT 369 Plant Tissue Culture: Theory and Practice 3 cr.
- CHEM 295 Introduction to Undergraduate Research 1 cr.
- CHEM 311 Polymer Chemistry 3 cr.
- CHEM 340 Physical Chemistry of Biological Systems 3 cr.
- CHEM 356 Chemical Instrumentation Lab (writing intensive) 1 cr.
- CHEM 452 Instrumental Analysis 3 cr.
- CHEM 461 Pharmacology 3 cr.
- CHEM 495 Undergraduate Research 1 cr.
- FDSC 110 The Science of Food 3 cr.
- FDSC 302 Dairy Manufacturing II 3 cr.
- FDSC 312 Food Processing 4 cr.
- FDSC 360 Food Chemistry 3 cr.
- FDSC 461 Food Analysis 4 cr.
- FDSC 490 Independent Study in Food Science 1-3 cr.
- HORT 161 Introduction to Plant Science 3 cr.
- HORT 169 Introduction to Horticulture 3 cr.
HORT 200 Plant Propagation 3 cr.
CROP 263 Forage Crop Production 3 cr.
CROP 410 Plant Breeding and Crop Improvement (writing intensive) 3 cr.
CROP 435 Crop Physiology 4 cr.
CROP 490 Independent Study in Agronomy 1-3 cr.
ESM 305 Environmental Impact Assessment
ESM 412 Chemical Fate and Transport
ESM 413 Environmental Analysis

**Required Supporting Courses 14 cr. hrs.**
MATH 166 Calculus I 4 cr.

**Either sequence A or B below:**

**A.**
PHYS 151 General Physics I 4 cr.
PHYS 152 General Physics II 4 cr.
PHYS 156 General Physics Laboratory I 1 cr.
PHYS 157 General Physics Laboratory II 1 cr.

**B.**
PHYS 101 General Physics Laboratory I 1 cr.
PHYS 102 General Physics Laboratory II 1 cr.
PHYS 161 General Physics I 4 cr.
PHYS 162 General Physics II 4 cr.

(Updated 8/17/06)
Students majoring in business administration have varied opportunities to select a program to meet specific interests. One choice is to complete a business administration degree with a minor. Another is to pursue a broad area business administration degree with an option in marketing, management, finance, or management information systems. A minor is not required with the Broad Area Major in Business Administration.

General Education Requirements

Review the general education requirements
The general education mathematics requirement for business majors can be met by taking ECON/MNGT 205 Quantitative Analysis, MATH 156 Calculus for Business and Social Sciences, or MATH 166 Calculus I.

Admission Requirements

For all majors in the College of Business and Economics:
Completion of at least 32 required general education credits with a minimum GPA of 2.25.

Additionally, the following must be completed, or in progress for completion, during the semester preceding admission. Students may register prior to acceptance, but acceptance is required for attendance in CBE upper-level courses. Students with GPAs between 2.0 and 2.25 may petition to the respective department chair for consideration on a case-by-case basis.

For admission to Accounting and Business Administration majors:
GPA of 2.25 in ACCT 231, 232; ECON 201, 202; CSIS 215; ECON 205 or MATH 156 or MATH 166; ECON or MATH 226; SCTA 116 or ENGL 266.

*These requirements apply to students entering UW-River Falls Fall Semester 2003 or later.

Business Administration Major

Business Administration Major: 45 Total Credits
(with a minor or double major)

Lower Division 21 cr. hrs.
Required of all majors before enrolling in any upper level division courses.
ECON 201 Principles of Microeconomics 3 cr.
ECON 202 Principles of Macroeconomics 3 cr.
ACCT 231 Principles of Accounting I 3 cr.
ACCT 232 Principles of Accounting II 3 cr.
CSIS 215 Information Systems for Business Management 3 cr.
ECON 226 Introduction to Statistics 3 cr.
or MATH 226 Introduction to Statistics
BLAW 265 Business Law I 3 cr.

**Upper Division 18 cr. hrs.**
MNGT 300 Management and Organizational Behavior 3 cr.
MKTG 310 Principles of Marketing 3 cr.
FINC 345 Managerial Finance 3 cr.
ECON 326 Statistical Methods for Economics and Business 3 cr.
MNGT 361 Operations Management 3 cr.
MNGT 485 Senior Seminar 3 cr.

**Business Electives 6 cr. hrs.**
Choose 6 credits of courses 300 level or higher from MKTG, MNGT or FINC including FINC 210.

**Required Supporting Courses: 9-10 cr. hrs.**
A. CBE 100 Orientation to CBE 1cr.
   CBE 200 Professional Development I 1 cr.
   CBE 300 Professional Development II 1 cr.

B. SCTA 116 Business and Professional Communication 3 cr.
   (waived if taken as GenEd)
   or ENGL 266 Business Writing

C. ECON 205 Quantitative Analysis
   or MATH 156 Calculus for Business and Social Sciences
   or MATH 166 Calculus I

**Business-Broad Area Major (with an option, no minor required)**

**Required courses for all options:**
**Lower and Upper Division Courses listed above 42 cr. hrs.**

**Other Required Courses: 3-6 cr. hrs.**
A. CBE 100 Orientation to CBE 1cr.
   CBE 200 Professional Development I 1 cr.
   CBE 300 Professional Development II 1 cr.

B. SCTA 116 Business and Professional Communication 3 cr.
   (waived if taken as GenEd)
   or ENGL 266 Business Writing

C. ECON 205 Quantitative Analysis
   or MATH 156 Calculus for Business and Social Sciences
   or MATH 166 Calculus I

**General Electives 12-18 cr. hrs. to reach 120 credits (minimum to graduate)**

**Finance Option 24 cr. hrs.**
**Required Finance Courses 12 cr. hrs.**
FINC 347 Financial Institutions 3 cr.
FINC 348 Investments 3 cr.
FINC 446 Intermediate Managerial Finance 3 cr.
**Finance Electives: 6 cr. hrs.**
Choose from:
FINC 314 Principles of Insurance 3 cr.
ECON 342 International Finance 3 cr.
FINC 350 Real Estate
FINC 389 Special Topics in Finance .5-3 cr.
FINC 448 Portfolio Management 3 cr.

**Support Electives: 6 cr. hrs.**

Choose from:
FINC 210 Personal Finance
FINC 379 Internship-Finance
ECON 302 Intermediate Macroeconomics
ECON 305 Money and Banking
ACCT, MNGT, and MKTG courses 300 level and higher

**Management Option 24 cr. hrs.**

**Required Management Courses: 9 cr. hrs.**

Choose from:
MNGT 320 Human Resource Management 3 cr.
MNGT 340 Ethical Leadership 3 cr.
MNGT 355 International Business 3 cr.
MNGT 430 Small Business Management 3 cr.

**Management Electives: 6 cr. hrs.**

Choose from:
MNGT 318 Operations Research 3 cr.
MNGT 320 Human Resource Management 3 cr.
MNGT 330 Managing Workplace Diversity 3 cr.
MNGT 340 Business Administration 3 cr.
MNGT 350 Decision Making 3 cr.
MNGT 355 International Business 3 cr.
MNGT 365 MIS 3 cr.
MNGT 378 Study Abroad 3-6 cr.
MNGT 379 Internship 2-6 cr.
MNGT 380 International Business Seminar 3 cr.
MNGT 389 Special Topics .5-3 cr.
MNGT 430 Small Business Management 3 cr.
MNGT 480 Human Resource Management Seminar 3 cr.
MNGT 499 Independent Study 1-3 cr.

**Support Electives: 9 cr. hrs.**

Choose supporting courses appropriate to area of interest with approval of adviser.

**Marketing Option 24 cr. hrs.**

**Required Marketing Courses 9 cr. hrs.**

MKTG 312 Consumer Behavior
MKTG 365 Marketing Research
MKTG 445 Marketing Strategy

**Marketing Electives 6 cr. hrs.**

Choose from:
MKTG 325 Sales Effectiveness 3 cr.
MKTG 330 Promotion Strategy 3 cr.
MKTG 334 Direct Marketing 3 cr.
MKTG 352 Business to Business Marketing 3 cr.
MKTG 355 International Marketing 3 cr.
MKTG 379 Internship-Marketing 3 cr.
MKTG 389 Special Topics in Marketing 3 cr.
MKTG 499 Independent Study 1-3 cr.
MNGT 450 e-Commerce 3 cr.

Support Electives: 9 cr. hrs.
Choose from:
ECON 316 Managerial Economics 3 cr.
ECON 340 International Trade 3 cr.
ECON 342 International Finance 3 cr.
ECON 426 Forecasting and Econometrics 3 cr.
GEOG 250 Cartography I 3 cr.
MNGT 310 Culture and Business 3 cr.
MNGT 330 Managing Workplace Diversity 3 cr.
MNGT 389 Special Topics in Management, Multi-media .5-3 cr.
PHIL 304 Business Ethics 3 cr.
POLS 256 Public Policymaking 3 cr.
POLS 260 International Relations 3 cr.
PSYC 236 Child & Adolescent Development 3 cr.
PSYC 265 Social Psychology 3 cr.
PSYC 305 Learning and Motivation 3 cr.
PSYC 310 Memory and Thinking 3 cr.
PSYC 320 Psychology of Personality 3 cr.
PSYC 336 Developmental Psychology: Adulthood and Aging 3 cr.
SCTA 306 Nonverbal Communication 3 cr.
SCTA 311 Persuasion 3 cr.
SCTA 316 Organizational Communication 3 cr.

Management Information Systems Option: 24 cr. hrs.
Required courses: 18 cr. hrs.
CSIS 161 Programming I 3 cr.
CSIS 162 Programming II 3 cr.
CSIS 247 Intro. To Computer Networking 3 cr.
CSIS 333 Database Management Systems 3 cr.
CSIS 423 System Analysis and Design 3 cr.
MNGT 450 E-Commerce 3 cr.

Directed Electives: 6 cr. hrs.
Choose from:
CSIS 433 System Analysis: MIS 3 cr.
CSIS 225 Web Development I 3 cr.
CSIS 325 Web Development II 3 cr.
MNGT 318 Operations Research 3 cr.
MNGT 320 Human Resource Management 3 cr.
MKTG 352 Business to Business Marketing 3 cr.

Business Administration Minor

Business Administration Minor: 24 Total Credits
(Prerequisites: ECON 201, 202, 226 or Math 226)
Required Courses 18 cr. hrs.
ACCT201 Survey of Accounting 3 cr.
(or ACCT231 and ACCT232, Principles of Accounting I and II )
BLAW 265 Business Law I 3 cr. hrs.
CSIS 215 Information Systems for Business Management 3 cr. hrs.
FINC 345 Managerial Finance 3 cr. hrs.
MNGT 300 Management and Organizational Behavior 3 cr. hrs.
MKTG 310 Principles of Marketing 3 cr. hrs.
Business Electives: 6 cr. hrs.
Courses 300 level or higher from MKTG, MNGT or FINC, including FINC 210
The Chemistry Department offers several options for chemistry majors, all of which are based on a core curriculum with additional requirements based on each option.

1. The Bachelor of Science regular option chemistry major is designed for students who desire a general education in chemistry as a background for careers in many fields such as polymer science, environmental analysis, industrial chemistry, materials science, various fields related to medical science, etc. This consists of 35 credit hours distributed among the major fields of chemistry.

2. The ACS-Approved regular option chemistry major is offered for those students who wish to pursue a more intensive program in chemistry approved by the American Chemical Society. This program includes the courses in the Bachelor of Science chemistry major and additional advanced courses. It is particularly recommended for students who intend to go to graduate school or work in the chemical industry. A course in computer use or programming and one year of foreign language are strongly recommended.

3. The biochemistry options are for those students who wish to pursue a career in biotechnology, the medical sciences or who desire a strong background in the chemistry of biological systems. The biochemistry program may be based on the Bachelor of Science major or the ACS Approved major. The ACS-Approved major is recommended for the student who plans to attend graduate school.

4. The education option chemistry major is designed for prospective secondary school teachers. The curriculum is planned so as to give the student (1) a broad general education, (2) specialized preparation in chemistry with a minor in a supporting field and (3) professional training necessary for effective teaching. In order to be admitted to the College of Education, the student needs to be evaluated and recommended by the Chemistry Education Advisory Committee. Contact the Chemistry Department chair for further information.

5. The polymer option is designed for those students who wish to pursue a career in the chemical industry working with new materials for applications in aerospace, electronics, medicine, building, and transportation industries. Students completing this option will be prepared to directly enter the chemical industry or go on to graduate school in areas of study such as polymers or material science. The polymer option is based on the ACS-Approved major.

Note: Substitution of other courses for degree requirements is possible upon application and approval by the department. This is on a case-by-case basis and particularly may affect students who change to a chemistry major or who transfer to UW-RF. Students should confer with their advisor and/or the department chair.

The Department of Chemistry at UW-RF is approved by the American Chemical Society. Students who are interested in pursuing advanced training in chemistry may obtain an ACS-Approved degree by taking several additional chemistry courses. Within the required supporting courses, the calculus-based physics courses 161, 162, 101, 102 are required for the ACS-Approved Option.

General Education Requirements
Courses in the major or required supporting courses may be double counted to satisfy the General Education science requirements. Therefore, the total General Education credit hour requirement is reduced by the courses that can be double-counted.

**Core Requirements**

**Core Requirements for All Chemistry Major Programs: 21 cr. hrs.**
- CHEM 121 General Chemistry I 5 cr.
- CHEM 122 General Chemistry II 5 cr.
- CHEM 231 Organic Chemistry I 3 cr.
- CHEM 232 Organic Chemistry II 3 cr.
- CHEM 251 Analytical Chemistry 2 cr.
- CHEM 256 Analytical Chemistry Lab 1 cr.
- CHEM 355 Separation Science Laboratory 1 cr.
- CHEM 480 Chemical Communications and Research (writing intensive) 1 cr.

**Required Supporting Courses: 14-21 cr. hrs.**
- MATH 166 Calculus I 4 cr.
- MATH 167 Calculus II 4 cr.
- MATH 266 Calculus III 3 cr.

Choose one of the following two physics series A. or B.: 10 cr. hrs.
(Option B is required for ACS-approved options)
- A. PHYS 151 General Physics I
- PHYS 152 General Physics II
- PHYS 156 General Physics Laboratory I
- PHYS 157 General Physics Laboratory II
- B. PHYS 161 General Physics I
- PHYS 162 General Physics II
- PHYS 101 General Physics Laboratory I
- PHYS 102 General Physics Laboratory II

**Chemistry Major-Liberal Arts**

**Chemistry Major- Liberal Arts: 35-37 Total Credits**

**Core Requirements 21 cr. hrs.**

**Required Supporting Courses 14-21 cr. hrs.**
(not counted in total for major)

**Regular Option Required Courses: 11 cr. hrs.**
- CHEM 236 Organic Chemistry Lab I 1 cr.
- CHEM 237 Organic Chemistry Lab II 1 cr.
- CHEM 341 Chemical Thermodynamics and Kinetics 3 cr.
- CHEM 342 Molecular Structure and Spectroscopy 3 cr.
- CHEM 356 Chemical Instrumentation Lab (writing intensive) 1 cr.
- CHEM 401 Advanced Chemistry Lab I (writing intensive) 1 cr.
- CHEM 402 Advanced Chemistry Lab II (writing intensive) 1 cr.

**Directed Electives for the Regular Option: 3 cr. hrs.**
Choose from:
- CHEM 311 Polymer Chemistry 3 cr.
- CHEM 361 Biochemistry I 3 cr.
- CHEM 411 Polymer Science 3 cr.
- CHEM 422 Advanced Inorganic Chemistry (writing intensive) 3 cr.
CHEM 432 Advanced Organic Chemistry 3 cr.
CHEM 452 Instrumental Analysis 3 cr.
CHEM 461 Pharmacology 3 cr.
CHEM 495 Undergraduate Research 1 cr.

Biochemistry Option
Required Courses: 16 cr. hrs.
CHEM 236 Organic Chemistry Lab I 1 cr.
CHEM 237 Organic Chemistry Lab II 1 cr.
CHEM 361 Biochemistry I 3 cr.
CHEM 362 Biochemistry II 3 cr.
CHEM 366 Biochemistry Laboratory (writing intensive) 1 cr.
CHEM 495 Undergraduate Research 1 cr.
Choose option A. or B. below: 6 cr. hrs.
A. CHEM 341 Chemical Thermodynamics and Kinetics
CHEM 342 Molecular Structure and Spectroscopy
B. CHEM 340 Physical Chemistry of Biological Systems
CHEM 432 Advanced Organic Chemistry
If option B. is chosen, MATH 167 and 266 are not required.

Additional required supporting courses, biochemistry option only: 6 cr. hrs.
BIOL 240 Cell and Molecular Biology 3 cr.
BIOL 350 Genetics and Evolution (writing intensive) 3 cr.

Chemistry Major- Education

Major Requirements - Secondary Education 35 Total Credits
Core Requirements: 21 cr. hrs.
Required Supporting Courses: 21 cr. hrs.
(not counted in total for major)

Secondary Education Option
Required Courses: 14 cr. hrs.
CHEM 236 Organic Chemistry Lab I 1 cr.
CHEM 237 Organic Chemistry Lab II 1 cr.
CHEM 341 Chemical Thermodynamics and Kinetics 3 cr.
CHEM 342 Molecular Structure and Spectroscopy 3 cr.
CHEM 356 Chemical Instrumentation Lab (writing intensive) 1 cr.
CHEM 401 Advanced Chemistry Lab I (writing intensive) 1 cr.
CHEM 402 Advanced Chemistry Lab II (writing intensive) 1 cr.
CHEM 422 Advanced Inorganic Chemistry (writing intensive) 3 cr.

Chemistry Major ACS-Approved

Chemistry Major ACS-Approved: 42-47 Total Credits
Core Requirements 21 cr. hrs.
Required Supporting Courses 21 cr. hrs.
(not counted in total for major)

ACS Regular Option
Required Courses: 19 cr. hrs.
CHEM 246 Synthetic and Analytical Techniques in Organic Chem I 2 cr.
CHEM 247 Synthetic and Analytical Techniques in Organic Chem II 1 cr.
CHEM 341 Chemical Thermodynamics and Kinetics 3 cr.
CHEM 342 Molecular Structure and Spectroscopy 3 cr.
CHEM 356 Chemical Instrumentation Lab (writing intensive) 1 cr.
CHEM 361 Biochemistry I 3 cr.
CHEM 401 Advanced Chemistry Lab I (writing intensive) 1 cr.
CHEM 402 Advanced Chemistry Lab II (writing intensive) 1 cr.
CHEM 422 Advanced Inorganic Chemistry (writing intensive) 3 cr.
CHEM 495 Undergraduate Research 1 cr.

Directed Electives for the Regular Option 3 cr. hrs.
Choose from:
CHEM 311 Polymer Chemistry 3 cr.
CHEM 362 Biochemistry II 3 cr.
CHEM 366 Biochemistry Laboratory (writing intensive) 1 cr.
CHEM 411 Polymer Science 3 cr.
CHEM 416 Polymer Laboratory 1 cr.
CHEM 432 Advanced Organic Chemistry 3 cr.
CHEM 452 Instrumental Analysis 3 cr.
CHEM 489 Special Topics in Chemistry .5-3 cr.

ACS Biochemistry Option
Required Courses: 21 cr. hrs.
CHEM 246 Synthetic and Analytical Techniques in Organic Chem I 2 cr.
CHEM 247 Synthetic and Analytical Techniques in Organic Chem II 1 cr.
CHEM 341 Chemical Thermodynamics and Kinetics 3 cr.
CHEM 342 Molecular Structure and Spectroscopy 3 cr.
CHEM 356 Chemical Instrumentation Lab (writing intensive) 1 cr.
CHEM 361 Biochemistry I 3 cr.
CHEM 362 Biochemistry II 3 cr.
CHEM 366 Biochemistry Laboratory (writing intensive) 1 cr.
CHEM 401 Advanced Chemistry Lab I (writing intensive) 1 cr.
CHEM 422 Advanced Inorganic Chemistry (writing intensive) 3 cr.

Additional required supporting courses, biochemistry option only: 10 cr. hrs.
BIOL 240 Cell and Molecular Biology 3 cr.
BIOL 350 Genetics and Evolution (writing intensive) 3 cr.
BIOL 451 Molecular Biology 4 cr.

ACS Polymer Option
Required Courses: 26 cr. hrs.
Option I
CHEM 236 Organic Chemistry Lab I 1 cr.
CHEM 237 Organic Chemistry Lab II 1 cr.
CHEM 311 Polymer Chemistry 3 cr.
CHEM 341 Chemical Thermodynamics and Kinetics 3 cr.
CHEM 342 Molecular Structure and Spectroscopy 3 cr.
CHEM 356 Chemical Instrumentation Lab (writing intensive) 1 cr.
CHEM 361 Biochemistry I 3 cr.
CHEM 366 Biochemistry Laboratory (writing intensive) 1 cr.
or CHEM 495 Undergraduate Research
CHEM 401 Advanced Chemistry Lab I (writing intensive) 1 cr.
CHEM 402 Advanced Chemistry Lab II (writing intensive) 1 cr.
CHEM 411 Polymer Science 3 cr.
CHEM 416 Polymer Laboratory 1 cr.
CHEM 422 Advanced Inorganic Chemistry (writing intensive) 3 cr.
CHEM 495 Undergraduate Research 1 cr.

Option II
CHEM 246 Synthetic and Analytical Techniques in Organic Chem I 2 cr.
CHEM 247 Synthetic and Analytical Techniques in Organic Chem II 1 cr.
CHEM 311 Polymer Chemistry 3 cr.
CHEM 341 Chemical Thermodynamics and Kinetics 3 cr.
CHEM 342 Molecular Structure and Spectroscopy 3 cr.
CHEM 356 Chemical Instrumentation Lab (writing intensive) 1 cr.
CHEM 361 Biochemistry I 3 cr.
CHEM 401 Advanced Chemistry Lab I (writing intensive) 1 cr.
CHEM 402 Advanced Chemistry Lab II (writing intensive) 1 cr.
CHEM 411 Polymer Science 3 cr.
CHEM 416 Polymer Laboratory 1 cr.
CHEM 422 Advanced Inorganic Chemistry (writing intensive) 3 cr.
CHEM 495 Undergraduate Research 1 cr.

Chemistry Major - Dual Degree (Engineering)

This major is awarded jointly with a B.S. in engineering after the student has successfully completed a three-year program at UW-River Falls with a minimum grade point average of 3.0 and a two-year program at either UW Madison or the University of Minnesota.

**Required courses 23 cr. hrs.**
CHEM 121 General Chemistry I 5 cr.
CHEM 122 General Chemistry II 5 cr.
CHEM 231 Organic Chemistry I 3 cr.
CHEM 232 Organic Chemistry II 3 cr.
CHEM 246 Synthetic and Analytical Techniques in Organic Chem I 2 cr.
CHEM 247 Synthetic and Analytical Techniques in Organic Chem II 1 cr.
CHEM 251 Analytical Chemistry 2 cr.
CHEM 256 Analytical Chemistry Lab 1 cr.
CHEM 355 Separation Science Laboratory 1 cr.

**Credits transferred from Engineering School 30 cr. hrs.**

**Required supporting courses at UW-RF 34 cr. hrs.**
PHYS 101 General Physics Laboratory I 1 cr.
PHYS 102 General Physics Laboratory II 1 cr.
PHYS 161 General Physics I 4 cr.
PHYS 162 General Physics II 4 cr.
PHYS 211 Scientific Programming 3 cr.
PHYS 264 General Physics 4 cr.
MATH 166 Calculus I 4 cr.
MATH 167 Calculus II 4 cr.
MATH 256 Linear Algebra 3 cr.
MATH 266 Calculus III 3 cr.
MATH 331 Differential Equations 3 cr.

Chemistry Minor

Liberal Arts and Education Minor: 22-24 Total Credits

**Required Courses: 10 cr. hrs.**
CHEM 121 General Chemistry I 5 cr.
CHEM 122 General Chemistry II 5 cr.

**Directed electives: Liberal Arts Minor: 12 cr. hrs. or Secondary Education Minor: 14 cr. hrs.**
At least one course must be at the 300 level or above.
CHEM 231 Organic Chemistry I 3 cr.
CHEM 232 Organic Chemistry II 3 cr.
CHEM 236 Organic Chemistry Lab I 1 cr.
CHEM 237 Organic Chemistry Lab II 1 cr.
CHEM 251 Analytical Chemistry 2 cr.
CHEM 256 Analytical Chemistry Lab I 1 cr.
CHEM 311 Polymer Chemistry 3 cr.
CHEM 340 Physical Chemistry of Biological Systems 3 cr.
CHEM 341 Chemical Thermodynamics and Kinetics 3 cr.
CHEM 342 Molecular Structure and Spectroscopy 3 cr.
CHEM 355 Separation Science Laboratory 1 cr.
CHEM 356 Chemical Instrumentation Lab (writing intensive) 1 cr.
CHEM 361 Biochemistry I 3 cr.
CHEM 362 Biochemistry II 3 cr.
CHEM 366 Biochemistry Laboratory (writing intensive) 1 cr.
CHEM 411 Polymer Science 3 cr.
CHEM 416 Polymer Laboratory 1 cr.
CHEM 422 Advanced Inorganic Chemistry (writing intensive) 3 cr.
CHEM 432 Advanced Organic Chemistry 3 cr.
CHEM 452 Instrumental Analysis 3 cr.
CHEM 461 Pharmacology 3 cr.
CHEM 495 Undergraduate Research 1 cr.
Criminal Justice (CJ)
Department of Sociology, Anthropology, and Criminal Justice
College of Arts and Sciences

326 Kleinpell Fine Arts Building
(715) 425-3992
www.uwrf.edu/sociology/

Edward Robins–Chair, Brian Copp, Tricia Davis, Jean Hector Faley, Clifford Mottaz, Timothy E. Nissen, Rich Wallace

Criminal Justice Minor with Sociology Major

Minor in Criminal Justice-Sociology Major: 24 Total Credits

Required Courses: 12 cr. hrs.

SOCI 100 Introduction to Sociology
(counts 3 cr. hrs. in Gen. Ed.)

or ANTH 100 Introduction to Anthropology
(counts 3 cr. hrs. in Gen. Ed.)

CJ 202 Introduction to Criminal Justice 3 cr.

CJ 320 Juvenile Delinquency 3 cr.

CJ 322 Criminology 3 cr.

CJ 430 Trends and Issues in Incarceration 3 cr.

or CJ 435 Alternatives to Incarceration

Directed Electives: 12 cr. hrs.

CJ 376 Criminal Justice Certification Internship 6 cr.

or CJ 379 Criminal Justice Internship 6-12 cr.

Choose 6 credits from the following courses:
In no case may a course be double counted for credit in both the CJ minor and Sociology major.

SOCI 218 Deviant Behavior 3 cr.

CJ 310 Gangs in the U.S. 3 cr.

SOCI 340 Sociology of Rural Life 3 cr.

SOCI 345 Sociology of Urban Life 3 cr.

SOCI 445 Power and Inequality 3 cr.

PSYC 325 Abnormal Psychology 3 cr.

POLS 225 Introduction to Public Administration 3 cr.

POLS 253 State and Local Politics 3 cr.

POLS 354 Women and the Law 3 cr.

POLS 416 Constitutional Law 3 cr.

Criminal Justice Minor with NonSociology Major

Minor in Criminal Justice-NonSociology Major: 24 Total Credits

Required Courses: 18 cr. hrs.

SOCI 100 Introduction to Sociology
(counts 3 cr. in Gen. Ed.)

or ANTH 100 Introduction to Anthropology
(counts 3 cr. in Gen. Ed.)
SOCI 200 Sociological Inquiry 3 cr.
CJ 202 Introduction to Criminal Justice 3 cr.
CJ 320 Juvenile Delinquency 3 cr.
CJ 322 Criminology 3 cr.
CJ 430 Trends and Issues in Incarceration 3 cr.
or CJ 435 Alternatives to Incarceration
SOCI 445 Power and Inequality 3 cr.

**Directed Electives: 6 cr. hrs.**
SOCI 208 Sociology of Diversity 3 cr.
SOCI 225 Sociology of Race and Ethnicity 3 cr.
or ANTH 225 Sociology of Race and Ethnicity
SOCI 218 Deviant Behavior 3 cr.
SOCI 240 Social Problems 3 cr.
CJ 310 Gangs in the U.S. 3 cr.
SOCI 330 Social Organizations 3 cr.
CJ 376 Law Enforcement Certification Internship 6 cr.
CJ 379 Criminal Justice Internship 6-12 cr.
SOCI 410 Social Psychology 3 cr.
Coaching
Department of Health and Human Performance
College of Education and Professional Studies

111 Karges Center
(715) 425-3705
www.uwrf.edu/hhp/

Chair–Faye Perkins, Debra Allyn, Jenn Berna, Richard Bowen, Martha Brennan, Kevin Bullis, Dean Culpepper, Gary Eloranta, Patti Ford, Steve Freeman, Bill Henderson, Cindy Hovet, Crystal Lanning, John O'Grady, Robert Ritzer, Jim Tangen-Foster, Sue Tarr, Karla Zhe

Coaching Minor

Minor Requirements 24 Total Credits
Required Courses: 18 cr. hrs.
SFED 200 First Aid and Basic Life Support 2 cr.
HEAL 262 Human Anatomy and Physiology 3 cr.
(or HEAL 263 and 366)
PED 213 Care and Prevention of Athletic Injury 2 cr.
PED 354 Biomechanics 3 cr.
PED 363 Psychology of Coaching 3 cr.
PED 465 Scientific Principles of Conditioning 2 cr.
PED 472 Coaching Practicum 3 cr.

Coaching Theory Classes: 6 cr. hrs.
Required to take at least two coaching theory classes.
PED 352 Coaching Women’s Gymnastics 2 cr.
PED 356 Tennis Coaching 2 cr.
PED 358 Track Coaching 2 cr.
PED 359 Volleyball Coaching 2 cr.
PED 364 Wrestling Coaching 2 cr.
PED 365 Football Coaching 2 cr.
PED 366 Swimming Coaching 2 cr.
PED 367 Basketball Coaching 2 cr.
PED 368 Ice Hockey Coaching 2 cr.
PED 369 Baseball/Softball Coaching 2 cr.

Students may satisfy this 6 cr. requirement by choosing a maximum of 2 cr. from the following or taking an additional coaching theory class:
PED 166 Football Officiating 1 cr.
PED 167 Basketball Officiating 1 cr.
PED 270 Athletic Training Practicum 2 cr.
PED 351 Coaching Young Athletes 2 cr.

Non-education majors are required to take PSYC 236 and 336.
Summary of Colleges, Departments and Majors

About this page

- Course listings and program requirements reflect that of the PRINTED UNDERGRADUATE CATALOG for 2003 through 2005 extended through 2007 (issued June 2003).
- Program modifications may have occurred that are NOT reflected in this on-line document.
- Please consult with your academic adviser regarding academic requirements.

College of Agriculture, Food and Environmental Science

College of Arts and Science

Pre-Professional Curricula

College of Business and Economics

College of Education and Professional Studies
Communicative Disorders (COMD)
Department of Communicative Disorders
College of Education and Professional Studies

B31 Wyman Education Building
(715) 425-3801
www.uwrf.edu/comm-dis/

Mike Harris–Chair, Lori Burgess, Gary Cottrell, Paul Hayden, Tom Jensen, Nan Jordahl, Deirdre Worrell

General Education Requirements

BA and BS Liberal Arts majors as listed on pages 22-23.
BS Education majors as listed on pages 31-32.

Communicative Disorders Major

Liberal Arts and Education: 39 Total Credits

Required Courses: 36 cr. hrs.
COMD 261 Language Development 4 cr.
COMD 262 Speech Systems 4 cr.
COMD 263 Phonetics 3 cr.
COMD 264 Speech Science 3 cr.
COMD 275 Practicum: Observation/Discussion 1 cr.
COMD 350 Articulatory and Phonological Disorders 3 cr.
COMD 360 Introduction to Audiology 3 cr.
COMD 362 Language Appraisal and Intervention 3 cr.
COMD 375 Clinical Procedures (writing intensive) 2 cr.
COMD 460 Voice Disorders 3 cr.
COMD 463 Behavior Modification/Stuttering 3 cr.
COMD 466 Aural Rehabilitation 3 cr.
COMD 379 Clinical Experience Internship 1 cr.

Directed Electives: 3 cr. hrs.
COMD 160 Introduction to Communicative Disorders 3 cr.
COMD 162 Introduction to American Sign Language 3 cr.
COMD 163 Communicative Disorders for the Elementary Teacher 3 cr.
COMD 351 Cleft Palate/Orofacial Anomaly 3 cr.
COMD 361 Speech and Language for Hearing Impaired 3 cr.
COMD 364 Aphasia 3 cr.
COMD 450 Infant Stimulation 3 cr.
COMD 451 Augmentative/Alternative Communication Systems 3 cr.
COMD 452 Dysphagia/Rehabilitation 3 cr.
COMD 453 Alaryngeal Speech 3 cr.
COMD 468 Screening and Assessment Procedures 3 cr.
COMD 469 American Sign Language 3 cr.

Professional Education Requirements: 26 cr. hrs.
TED 211 Educational Psychology: Elementary Education 5 cr.
TED 422 Content Area Literacy in Middle and Secondary Schools 3 cr.
or TED 461 The Psychology and Pedagogy of Literacy 3 cr.
TED 439 Techniques of Middle/Secondary Education: Communicative Disorders 3 cr.
TED 475 Student Teaching: K-12 1-12 cr.
PSYC 330 The Exceptional Child 3 cr.

**Communicative Disorders Minor**

**Three different emphases 22 Total Credits**

**Required Courses: 4 cr. hrs.**

COMD 160 Introduction to Communicative Disorders 3 cr.
or COMD 163 Comm Disorders for Elementary Teacher (School Age Emphasis)
COMD 275 Practicum: Observation/Discussing 1 cr.

**1. Early Childhood Emphasis: 9 cr. hrs.**

**COMD Electives-Choose 3 courses from:**

COMD 261 Language Development 4 cr.
COMD 262 Speech Systems 4 cr.
COMD 263 Phonetics 3 cr.
COMD 350 Articulatory and Phonological Disorders 3 cr.
COMD 351 Cleft Palate/Orofacial Anomaly 3 cr.
COMD 360 Introduction to Audiology 3 cr.
COMD 362 Language Appraisal and Intervention 3 cr.
COMD 451 Augmentative/Alternative Communication Systems 3 cr.
COMD 466 Aural Rehabilitation 3 cr.

**Early Childhood Directed Electives: 9 cr. hrs.**

**Choose 3 courses from:**

ENGL 250 Literature for Children 3 cr.
ENGL 322 Acquisition of Language 3 cr.
PSYC 201 Behavioral Statistics 3 cr.
PSYC 236 Developmental Psychology: Childhood and Adolescence 3 cr.
PSYC 260 Behavior Modification 3 cr.
PSYC 305 Learning and Motivation 3 cr.
PSYC 310 Memory and Thinking 3 cr.
PSYC 315 Psychological Measurement and Evaluation 3 cr.
SCTA 207 Listening Skills 3 cr.
TED 225 Developmental Learning Experiences of Young Children 3 cr.
TED 255 Reading Guidance for Children 3 cr.
TED 330 Infant Toddler Development 3 cr.

**2. School Age Emphasis 9 cr. hrs.**

**COMD Electives-Choose 3 courses from:**

COMD 261 Language Development 4 cr.
COMD 262 Speech Systems 4 cr.
COMD 263 Phonetics 3 cr.
COMD 350 Articulatory and Phonological Disorders 3 cr.
COMD 351 Cleft Palate/Orofacial Anomaly 3 cr.
COMD 360 Introduction to Audiology 3 cr.
COMD 362 Language Appraisal and Intervention 3 cr.
COMD 451 Augmentative/Alternative Communication Systems 3 cr.
COMD 460 Voice Disorders 3 cr.
COMD 463 Behavior Modification/Stuttering 3 cr.
COMD 466 Aural Rehabilitation 3 cr.

**School Age Directed Electives: 9 cr. hrs.**

**Choose 3 courses from:**
COUN 410 Introduction to Counseling 3 cr.
ENGL 250 Literature for Children 3 cr.
ENGL 322 Acquisition of Language 3 cr.
ENGL 373 Techniques in Tutoring: TESOL Practicum 3 cr.
PSYC 201 Behavioral Statistics 3 cr.
PSYC 236 Developmental Psychology: Childhood and Adolescence 3 cr.
PSYC 260 Behavior Modification 3 cr.
PSYC 305 Learning and Motivation 3 cr.
SCTA 207 Listening Skills 3 cr.
SCTA 222 Voice and Articulation 3 cr.
TED 255 Reading Guidance for Children 3 cr.
PSYC 420 Introduction to Learning Disabilities 3 cr.
TED 461 The Psychology and Pedagogy of Literacy 3 cr.
Directed electives that are applicable for Learning Disability certification are COMD 461, PSYC 420 and TED 461

3. Adult Emphasis 9 cr. hrs.

**COMD Electives-Choose 3 courses from:**

- COMD 262 Speech Systems 4 cr.
- COMD 263 Phonetics 3 cr.
- COMD 350 Articulatory and Phonological Disorders 3 cr.
- COMD 360 Introduction to Audiology 3 cr.
- COMD 364 Aphasia 3 cr.
- COMD 451 Augmentative/Alternative Communication Systems 3 cr.
- COMD 452 Dysphagia/Rehabilitation 3 cr.
- COMD 460 Voice Disorders 3 cr.
- COMD 463 Behavior Modification/Stuttering 3 cr.

**Adult Directed Electives: 9 credits**

**Choose 3 courses from:**

- COUN 410 Introduction to Counseling 3 cr.
- ENGL 373 Techniques in Tutoring: TESOL Practicum 3 cr.
- PSYC 201 Behavioral Statistics 3 cr.
- PSYC 260 Behavior Modification 3 cr.
- PSYC 305 Learning and Motivation 3 cr.
- PSYC 310 Memory and Thinking 3 cr.
- PSYC 315 Psychological Measurement and Evaluation 3 cr.
- PSYC 336 Developmental Psychology: Adulthood and Aging 3 cr.
- SCTA 207 Listening Skills 3 cr.
- SCTA 222 Voice and Articulation 3 cr.
- SCTA 306 Nonverbal Communication 3 cr.
- SOCI 315 Sociology of Later Life 3 cr.
- SOCI 300 Research Methods (writing intensive) 3 cr.
  or SOWK 300 Research Methods

Related Resource: [Campus Disability Services](#).
Conservation
Department of Plant and Earth Science
College of Agriculture, Food and Environmental Sciences

324 Agriculture Science Hall
(715) 425-3345
www.uwrf.edu/pes/


The Conservation major is designed to meet the academic needs of students interested in a career dealing with the management of our natural environment. The major has the flexibility to accommodate interests in general natural resource management, soil and water conservation, environmental education, forest or wildlife management, environmental regulations or law enforcement, and the like, depending on the students course selection of directed and general electives.

General Education Requirements

As listed on pages pages 18-19 with the following exceptions:
Social and Behavioral: ESM 105 required
Sciences: GEOL 101, CHEM 111, 116, and BIOL 100 required.

Conservation Major

Conservation Core 47-49 cr. hrs.
ESM 109 Introduction to Forestry 2 cr.
ESM 151 Introduction to Land Use Theory and Practice 3 cr.
ESM 220 Environmental Sustainability: Theory, Issues, and Management 3 cr.
ESM 270 Internship I 2-4 cr.
ESM 303 Environmental Policies and Administration 3 cr.
ESM 333 Remote Sensing of Natural Resources 3 cr.
ESM 343 Woodlot Management 3 cr.
ESM 360 Applied Hydrology and Water Quality 4 cr.
ESM 363 GIS Application in Resource Management 3 cr.
ESM 485 Seminar in Resource Management 1 cr.
SOIL 210 Introductory Soil Science 3 cr.
SOIL 440 Soil and Water Conservation 4 cr.
AGEC 450 Introduction to Natural Resource Economics 3 cr.
BIOL 344 Wildlife Biology 4 cr.
BIOL 360 Ecology 3 cr.
BIOL 210 General Botany 3 cr.
or BIOL 230 General Zoology

Required Supporting Courses 12 cr. hrs.
GEOG 250 Introduction to Cartography and GIS 3 cr.
ENGL 367 Technical Writing 3 cr.
AGED 202 Leadership and Group Dynamics 3 cr.
or SCTA 208 Problem Solving in Small Group Communication
AGEC 230 Agriculture Economics I 3 cr.
or ECON 201 Principles of Microeconomics

**Directed Electives: 11-13 cr. hrs.**

**Select one:**
ECON 226, MATH 226, ANSC 341

**Select one:**
ESM 307 or any other Diversity Course

**General Electives: 6 cr. hrs.**

**Conservation Minor**

**Conservation Minor: 22 Total Credits**
ESM 105 Introduction to Environmental Studies 3 cr.
ESM 109 Introduction to Forestry 2 cr.
ESM 151 Introduction to Land Use Theory and Practice 3 cr.
ESM 343 Woodlot Management 3 cr.
ESM 360 Applied Hydrology and Water Quality 4 cr.
SOIL 210 Introductory Soil Science 3 cr.
SOIL 440 Soil and Water Conservation 4 cr.
Computer Science and Information Systems (CSIS)
Department of Computer Science and Information Systems
College of Business and Economics

124 South Hall
(715) 425-3335
www.uwrf.edu/csis

Ahmad Abuhejleh–Chair, Mary-Alice Muraski, Hossein Najafi, Anthony Varghese, Ellen Schultz-Academic adviser

General Education Requirements

As listed on pages pages 29-30.

Computer Science and Information Systems Major

Computer Science Option: 37 Total Credits
This option has a technical and theoretical emphasis providing students with a comprehensive understanding of software engineering, computing techniques and the underlying theories. Graduates will develop skills relevant to the analysis, design and implementation of sophisticated software/hardware systems and communication networks.

Required Courses: 25 cr. hrs.
CSIS 161 Programming I 3 cr.
CSIS 162 Programming II 3 cr.
CSIS 237 Data Structure and Algorithm 3 cr.
CSIS 247 Introduction to Computer Networks 3 cr.
CSIS 333 Database Management Systems 3 cr.
CSIS 355 Computer Organization and Assembly Language 3 cr.
CSIS 429 Operating Systems 3 cr.
CSIS 484 Seminar (writing intensive) 1 cr.

Directed Electives: 12 cr. hrs.
To be selected from 200-400 CSIS courses in consultation with adviser. CSIS 215 will not apply to this area. A max. of 3 credits of CSIS 379 will apply to this area.

Required supporting math courses: 11 cr. hrs.
Math 166, 236, 256 or 361 or 366

Computer Information Systems Option: 37 Total Credits
The analysis and design of information systems with an emphasis on managing, storing, transmitting and providing ready access to information is the key to the CIS option. Graduates will develop skills relevant to the analysis, design and implementation of sophisticated information systems.

Required Courses: 25 cr. hrs.
CSIS 161 Programming I 3 cr.
CSIS 162 Programming II 3 cr.
CSIS 237 Data Structure and Algorithm 3 cr.
CSIS 247 Introduction to Computer Networks 3 cr.
CSIS 333 Database Management Systems 3 cr.
CSIS 355 Computer Organization and Assembly Language 3 cr.
CSIS 423 Introduction to System Analysis I 3 cr.
CSIS 433 Design Analysis MIS 3 cr.
CSIS 484 Seminar (writing intensive) 1 cr.

Directed Electives: 12 cr. hrs.
To be selected from 200-400 CSIS courses in consultation with adviser. CSIS 215 will not apply to this area. A max. of 3 credits of CSIS 379 will apply to this area.

Required supporting math courses: 7-8 cr. hrs.
MATH 156 or 166, 236.

Computer Science and Information Systems Minor

Computer Science Option: 24 Total Credits

Required courses 18 cr. hrs.
CSIS 161 Programming I 3 cr.
CSIS 162 Programming II 3 cr.
CSIS 237 Data Structure and Algorithm 3 cr.
CSIS 247 Introduction to Computer Networks 3 cr.
CSIS 333 Database Management Systems 3 cr.
CSIS 355 Computer Organization and Assembly Language 3 cr.

Directed electives 6 cr. hrs.
To be selected from 200-400 CSIS courses in consultation with adviser. CSIS 215 will not apply to this area.

Required supporting math courses: 8 cr. hrs.
MATH 166, 236

Information Systems Option: 24 Total Credits

Required courses 18 cr. hrs.
CSIS 161 Programming I 3 cr.
CSIS 162 Programming II 3 cr.
CSIS 237 Data Structure and Algorithm 3 cr.
CSIS 247 Introduction to Computer Networks 3 cr.
CSIS 333 Database Management Systems 3 cr.
CSIS 423 Introduction to Systems Analysis 3 cr.

Directed electives 6 cr. hrs.
To be selected from 200-400 CSIS courses in consultation with adviser. CSIS 215 will not apply to this area.

Required supporting math courses: 7-8 cr. hrs.
MATH 156 or 166, 236
Two options exist for students who select the Crop and Soil Science major: 1) Crop Science, and 2) Soil Science. The Crop Science option is designed for students who wish to focus their studies on plants and the use of plants for food, feed and fiber. Students learn about crop management, biotechnology, crop physiology, crop quality, as well as genetics and plant breeding. The Soil Science option is designed for those whose interests include the basic components and properties of soils, soil conservation, soil fertility, soil hydrology, and the management of soils to produce crops in an sustainable way.

Total Credits Required for Degree: 120

General Education Requirements

New, first-year students who are candidates for the bachelor's degree and who have matriculated after September 1, 2005, must fulfill the new General Education program regulations as set forth in the Addendum to the Undergraduate Catalog.

The following general education courses are required in the major: MATH 146 or equivalent, CHEM 121, ENGL 100, ENGL 200, BIOL 150, P ED 108, as well as the student's choice of SCTA 101 or SCTA 116.

University Requirements

Students must complete a three-credit course related to American Cultural Diversity (the University "D" requirement), as well as a three-credit course related to Global Perspectives (the University "G" requirement).

Crop and Soil Science Major

Foundation Courses in Agriculture 12 cr. hrs.
CROP 161 Introduction to Plant Science 3 cr.
SOIL 210 Introductory Soil Science 3 cr.
AGEC 230 Agricultural Economics 3 cr.
Select one from:
AGEN 150 Agricultural and Environmental Engineering Technology 3 cr.
ANSC 111 Introduction to Animal Science 3 cr.
FDSC 110 The Science of Food 3 cr.

Major Requirements 64 Total Credits

Required Courses: 14 cr. hrs.
CROP 263 Forage Crop Production 3 cr.
CROP 266 Crop and Soybean Production 3 cr.
SOIL 311 Soil Fertility 4 cr.
SOIL 440 Soil and Water Conservation 4 cr.

Options (choose one):

**Crop Science Option 43-45 cr. hrs.**

CROP 257 Genetics 3 cr.
CROP 260 Plant and Seed Identification 2 cr.
CROP 345 Weed Control 3 cr.
CROP 410 Plant Breeding and Crop Improvement 3 cr.
CROP 435 Crop Physiology 4 cr.
CROP 451 Integrated Pest Management 3 cr.
CROP 485 Seminar in Agronomy 1 cr.
ANSC 341 Biometrics 3 cr.
AGBI 251 Agricultural Biochemistry 3 cr.
AGBI 252 Agricultural Biochemistry Laboratory Techniques 1 cr.
BIOL 314 Plant Pathology 3 cr.
BIOL 333 Entomology 3 cr.
CHEM 230 General Organic Chemistry 3 cr.

Select one course from the following:

AGEN 363 Precision Agricultural Technology 3 cr.
ANSC 231 Principles of Nutrition 3 cr.
HORT 327 Vegetable Science and Production 4 cr.
HORT 347 Fruit Science and Production 4 cr.
HORT 455 Turfgrass Science and Management 3 cr.
SOIL 350 Pedology 4 cr.

Select one course from the following:

AGEC 355 Agricultural Marketing and Production 3 cr.
AGEC 360 Farm Management 3 cr.
AGEC 368 Professional Selling 3 cr.

Select one course from the following:

CROP 267 Small Grain and Miscellaneous Crop Production 3 cr.
CROP 268 Grain Quality 2 cr.
CROP 363 Pasture Management 2 cr.
CROP 368 Sustainable Agriculture 3 cr.
CROP 462 Agricultural Ecology 2 cr.

**Directed Electives 3-11 cr. hrs.**

**Soil Science Option 35-42 cr. hrs.**

SOIL 325 Hydric Soils and Wetland Environments 3 cr.
SOIL 350 Pedology 4 cr.
SOIL 460 Soil Physics 3 cr.
CHEM 122 General Chemistry II 5 cr.
GEOL 102 Introductory Geology Lab 1 cr.
ESM 360 Applied Hydrology and Water Quality 4 cr.
ENGL 367 Technical Writing 3 cr.
SCTA 211 Public Speaking 3 cr.

Select one course from the following:

CROP 257 Genetics 3 cr.
CROP 260 Plant and Seed Identification 2 cr.
CROP 267 Small Grain and Miscellaneous Crop Production 3 cr.
CROP 345 Weed Control 3 cr.
CROP 363 Pasture Management 2 cr.
CROP 435 Crop Physiology 4 cr.
CROP 462 Agricultural Ecology 2 cr.

Select two courses from the following:
GEOL 327 Geomorphology and Glacial Geology 4 cr.
CROP 451 Integrated Pest Management 3 cr.
BIOL 210 General Botany 3 cr.
BIOL 230 General Zoology 3 cr.
BIOL 240 Cell and Molecular Biology 3 cr.
BIOL 314 Plant Pathology 3 cr.
BIOL 324 Microbiology 4 cr.
BIOL 333 Entomology 3 cr.

Select one course from the following:
AGEC 320 Statistical Methods 3 cr.
ANSC 341 Biometrics 3 cr.
CHEM 230 General Organic Chemistry 3 cr.
CHEM 251 Analytical Chemistry 2 cr.
CHEM 256 Analytical Chemistry Lab 1 cr.
PHYS 151 General Physics 4 cr.

Agronomy Minor

Minor Requirements 24 Total Credits

Required Courses: 18 cr. hrs.
CROP 161 Introduction to Plant Science 3
CROP 260 Plant and Seed Identification 2
CROP 263 Forage Crop Production 3
CROP 266 Corn and Soybean Production (writing intensive) 3
SOIL 210 Introductory Soil Science 3
SOIL 311 Soil Fertility 4

Directed Electives: 4 cr. hrs.
(consult with agronomy faculty for courses)

Soil Science Minor

Choose from the following: 22 Total Credits
SOIL 311 Soil Fertility 4 cr.
SOIL 325 Hydric Soils and Wetland Environments 3 cr.
SOIL 350 Pedology 4 cr.
SOIL 440 Soil and Water Conservation 4 cr.
SOIL 460 Soil Physics 3 cr.
GEOL 101 Introductory Geology 3 cr.
GEOL 102 Introductory Geology Lab 1 cr.
GEOL 327 Geomorphology and Glacial Geology (writing intensive) 4 cr.
Computer Science and Information Systems (CSIS)
Department of Computer Science and Information Systems
College of Business and Economics

124 South Hall
(715) 425-3335
www.uwrf.edu/csis

Ahmad Abuhejleh–Chair, Arpan Jani, Hossein Najafi, Anthony Varghese, Ellen Schultz-Academic adviser

General Education Requirements

As listed on pages pages 29-30.

Admission Requirements

For all majors in the College of Business and Economics:
Completion of at least 32 required general education credits with a minimum GPA of 2.25.

Additionally, the following must be completed, or in progress for completion, during the semester preceding admission. Students may register prior to acceptance, but acceptance is required for attendance in CBE upper-level courses. Students with GPAs between 2.0 and 2.25 may petition to the respective department chair for consideration on a case-by-case basis.

For admission to the CSIS majors:
GPA of 2.25 in CSIS 161, 162 and 237.

*These requirements apply to students entering UW-River Falls Fall Semester 2003 or later.

Computer Science and Information Systems Major

Computer Science Option: 37 Total Credits
This option has a technical and theoretical emphasis providing students with a comprehensive understanding of software engineering, computing techniques and the underlying theories. Graduates will develop skills relevant to the analysis, design and implementation of sophisticated software/hardware systems and communication networks.

Required Courses: 25 cr. hrs.
CSIS 161 Programming I 3 cr.
CSIS 162 Programming II 3 cr.
CSIS 237 Data Structure and Algorithm 3 cr.
CSIS 247 Introduction to Computer Networks 3 cr.
CSIS 333 Database Management Systems 3 cr.
CSIS 343 Software Engineering 3 cr.
CSIS 355 Computer Organization and Assembly Language 3 cr.
CSIS 429 Operating Systems 3 cr.
CSIS 484 Seminar (writing intensive) 1 cr.

Directed Electives: 12 cr. hrs.
To be selected from 200-400 CSIS courses in consultation with adviser.

Required supporting math courses: 11 cr. hrs.
Math 166, 236, 256 or 361 or 366
CBE 100; CBE 200 and CBE 300 3cr.

Computer Information Systems Option: 37 Total Credits
The analysis and design of information systems with an emphasis on managing, storing, transmitting and providing ready access to information is the key to the CIS option. Graduates will develop skills relevant to the analysis, design and implementation of sophisticated information systems.

**Required Courses:** 25 cr. hrs.
CSIS 161 Programming I 3 cr.
CSIS 162 Programming II 3 cr.
CSIS 237 Data Structure and Algorithm 3 cr.
CSIS 247 Introduction to Computer Networks 3 cr.
CSIS 333 Database Management Systems 3 cr.
CSIS 355 Computer Organization and Assembly Language 3 cr.
CSIS 423 Introduction to System Analysis I 3 cr.
CSIS 433 Design Analysis MIS 3 cr.
CSIS 484 Seminar (writing intensive) 1 cr.

**Directed Electives:** 12 cr. hrs.
To be selected from 200-400 CSIS courses in consultation with adviser.

**Required supporting courses:** 10-11 cr. hrs.
MATH 156 or 166, 236. 7-8 cr. hrs.
CBE 100; CBE 200 and CBE 300 3cr.

Computer Science and Information Systems Minor

**Computer Science Option:** 24 Total Credits

**Required courses 18 cr. hrs.**
CSIS 161 Programming I 3 cr.
CSIS 162 Programming II 3 cr.
CSIS 237 Data Structure and Algorithm 3 cr.
CSIS 247 Introduction to Computer Networks 3 cr.
CSIS 333 Database Management Systems 3 cr.
CSIS 355 Computer Organization and Assembly Language 3 cr.

**Directed electives 6 cr. hrs.**
To be selected from 200-400 CSIS courses in consultation with adviser.

**Required supporting math courses:** 8 cr. hrs.
MATH 166, 236

**Information Systems Option:** 24 Total Credits

**Required courses 18 cr. hrs.**
CSIS 161 Programming I 3 cr.
CSIS 162 Programming II 3 cr.
CSIS 237 Data Structure and Algorithm 3 cr.
CSIS 247 Introduction to Computer Networks 3 cr.
CSIS 333 Database Management Systems 3 cr.
CSIS 423 Introduction to Systems Analysis 3 cr.

**Directed electives 6 cr. hrs.**
To be selected from 200-400 CSIS courses in consultation with adviser.

**Required supporting math courses:** 7-8 cr. hrs.
MATH 156 or 166, 236
Dance Education (DANC)
Department of Health and Human Performance
College of Education and Professional Studies

111 Karges Center
(715) 425-3705
www.uwrf.edu/hhp/

Chair–Faye Perkins, Debra Allyn, Jenn Berna, Richard Bowen, Martha Brennan, Kevin Bullis, Dean Culpepper, Gary Eloranta, Patti Ford, Steve Freeman, Bill Henderson, Cindy Hovet, Crystal Lanning, John O'Grady, Robert Ritzer, Jim Tangen-Foster, Sue Tarr, Karla Zhe

The mission of the Department of Health and Human Performance is to provide leadership and education for a diverse student body in the areas of health, physical education, recreation, dance, and athletics. The department is committed to promoting physical activity and healthy lifestyles throughout the lifespan, whether it be through providing opportunities for exceptional performance in athletics; for a holistic teaching approach in our physical education, health, dance, outdoor education and coaching curriculae; for creative expression in dance theatre; or for recreational and leisure opportunities through activity courses and the Life Fitness Program.

Dance Education Minor

Minor Requirements 22-24 Total Credits
Required Courses 22-24 cr. hrs.
DANC 100 History/Appreciation of Dance 3 cr.
DANC 107 Social Dance .5 cr.
DANC 110 Basic Jazz Dance .5 cr.
DANC 120 Fund. of Movement Through Dance 1 cr.
DANC 150 Dance Improvisation 1 cr.
DANC 221 Modern Dance II 1cr.
DANC 224 Ballet I 1 cr.
DANC 226 Ballet II 1 cr.
DANC 250 Dance Composition 2 cr.
DANC 257 Rhythms 2 cr.
DANC 260 Dance Repertory 1-3 cr.
DANC 362 Dance for the Elementary School 2 cr.
HEAL 262 Human Anatomy and Physiology 3 cr.
SCTA 333 Stage Lighting 3 cr.
The Department of Animal and Food Science offers three options for Dairy Science majors. Required core courses within the Dairy Science major are identical, regardless of option. Additional requirements are based on the choice of option. The Dairy Science–Management option is designed for students seeking careers in dairy farm management or supporting industries such as feed, pharmaceutical, or genetics sectors of the dairy industry. The Dairy Science–Science option is designed for students that plan to enroll in graduate or professional degree programs following completion of the Bachelor of Science degree. This option is strongly suggested for students that hope to enroll in a college of veterinary medicine at a future date. The Dairy Science–Minor option is designed for students who wish to supplement their education with an academic minor or second major.

**General Education Requirements**

As listed on pages 18-19 with the following exceptions:

**CS** (Communication/Speaking and Listening) designator:
SCTA 101 or SCTA 116 is required

**SL** (Scientific Investigation) / S (Sciences) designator:
BIOL 150 is required
CHEM 120 or CHEM 121 is required

**Foundation Courses in Agriculture: 12 cr. hrs.**
ANSC 111 Introduction to Animal Science 3 cr.
AGEC 230 Agricultural Economics 3 cr.

**Select 2 from the following:**
AGEN 150 Agricultural and Environmental Engineering Technology 3 cr.
CROP 161 Introduction to Plant Science
or HORT 161 Introduction to Plant Science 3 cr.
FDSC 112 Introduction to Food Science 3 cr.
SOIL 210 Introduction to Soil Science 3 cr.

**Dairy Science Major**

**Dairy Science Major: 63-65 Total Credits**

**Required Courses: 35 cr. hrs.**
DASC 120 Orientation to Dairy Science 1 cr.
ANSC 231 Principles of Nutrition 3 cr.
ANSC 232 Applied Feeds and Feeding 3 cr.
ANSC 257 Genetics 3 cr.
ANSC 260 Animal Physiology 4 cr.
DASC 306 Dairy Production 3 cr.
ANSC 345 Animal Health 2 cr.
ANSC 346 Principles of Animal Breeding 3 cr.
DASC 404 Lactation and Milk Quality 3 cr.
DASC 406 Advanced Dairy Management 3 cr.
ANSC 433 Advanced Nutrition
or DASC 436 Dairy Cattle Nutrition or 3 cr.
ANSC 448 Physiology of Reproduction 3 cr.
DASC 485 Seminar in Dairy Science 1 cr.

Select Management, Science, or Minor Option

Management Option 25 cr. hrs.
CHEM 230 General Organic Chemistry 3 cr.
AGBI 251 Agricultural Biochemistry 3 cr.
DASC 270/370 Internship I/Internship II 4 cr.
Choose two from:
AGEC 305 Agricultural Business Accounting 3 cr.
AGEC 345 Agricultural Law 3 cr.
AGEC 355 Agricultural Markets and Prices 3 cr.
AGEC 360 Farm Management 3 cr.
AGEC 365 Agricultural Finance 3 cr.
Additional directed electives: 9 cr. hrs.
Students may select any combination of courses offered by Food Science, Agricultural Education, Agricultural Economics, Agricultural Engineering, Plant and Earth Science, Modern Language, or the College of Business and Economics. At least 6 credit hours must be earned from courses at the 200 level or higher.

Science Option 28-30 cr. hrs.
CHEM 122 General Chemistry II 5 cr.
CHEM 231 Organic Chemistry I 3 cr.
CHEM 236 Organic Chemistry Lab I 1 cr.
or CHEM 246 Synthetic and Analytical Techniques in Organic Chemistry I 2 cr.
CHEM 232 Organic Chemistry II 3 cr.
CHEM 237 Organic Chemistry Lab II 1 cr.
or CHEM 247 Synthetic and Analytical Techniques in Organic Chemistry II 1 cr.
CHEM 361 Biochemistry I 3 cr.
MATH 147 College Algebra and Trigonometry 3 cr.
or MATH 149 Precalculus 4 cr.
or MATH 166 Calculus I 4 cr.
PHYS 151 General Physics
or PHYS 161 General Physics 4 cr.
ANSC 341 Biometrics 3 cr.
BIOL 324 Microbiology 4 cr.
Choose one from the following:
ANSC 447 Endocrinology 2 cr.
BIOL 230 General Zoology 3 cr.
BIOL 240 Cell and Molecular Biology 3 cr.
CHEM 362 Biochemistry II 3 cr.
CHEM 461 Pharmacology 3 cr.
PHYS 152 General Physics II
or PHYS 162 General Physics II 4 cr.

Minor Option 28-30 cr. hrs.
Any minor of 22-24 credits or second major (other than Animal Science, Dairy Science, or Ag Studies).
In addition to the minor or second major the following two courses are required:
CHEM 230 General Organic Chemistry 3 cr.
AGBI 251 Agricultural Biochemistry 3 cr.

**Dairy Science Minor**

**Dairy Science Minor: 22 total cr. hrs.**

**Required courses: 18 cr. hrs.**
ANSC 231 Principles of Nutrition 3 cr.
ANSC 232 Applied Feeds and Feeding 3 cr.
ANSC 257 Genetics 3 cr.
DASC 306 Dairy Production 3 cr.

**Choose two from:**
DASC 404 Lactation and Milk Quality 3 cr.
DASC 406 Advanced Dairy Management 3 cr.
DASC 436 Dairy Cattle Nutrition 3 cr.

**Directed Electives: 4-6 cr. hrs.**
Choose 1-3 courses from all courses in DASC, ANSC, AGBI, or FDSC except the following: courses numbered lower than the 200 level; more than one evaluation or independent study course-DASC 210, 310, 490, ANSC 211, 311, 313, 490, FDSC 490.

**Dairy Science Two-Year Certificate**

**Dairy Science Two-Year Certificate: 60 total cr. hr.**

**General education requirements: 25-26 cr. hrs.**
BIOL 150 General Biology 3 cr.
CHEM 120 Introduction to General Chemistry 6 cr.
or CHEM 121 General Chemistry I 5 cr.
ENGL 100 Academic Reading and Writing 3 cr.
ENGL 200 Investigating Ideas: Reading, Writing, and the Disciplines 3 cr.
ESM 105 Introduction to Environmental Studies 3 cr.
MATH 146 College Algebra 3 cr.
P ED 108 Health and Fitness for Life 1 cr.
P E (Select two 0.5 cr. activities courses) 1 cr.
SCTA 101 Fundamentals of Oral Communication 3 cr.

**Dairy Science requirements: 30 cr. hrs.**
ANSC 111 Introduction to Animal Science 3 cr.
ANSC 231 Principles of Nutrition 3 cr.
ANSC 232 Applied Feeds and Feeding 3 cr.
ANSC 257 Genetics 3 cr.
ANSC 345 Animal Health 2 cr.
DASC 120 Orientation to Dairy Science 1 cr.
DASC 306 Dairy Production 3 cr.

**CAFES Electives: 12 cr. hrs.**
**General Electives: 4-5 cr. hrs.**
UW-River Falls offers elementary majors an early childhood minor which meets certification requirements to teach kindergarten and pre-kindergarten. In addition to providing further enrichment in techniques for instruction in the primary grades, this minor and certification increases the range of potential employment for an elementary education major. Those who may seek employment in existing day care centers, nursery schools, child and family education programs or those intending to start their own private pre-school should investigate the opportunities opened via an early childhood minor.

**Early Childhood Certification Program**

**Prerequisites to entering the minor sequence:**
TED 211 Educational Psychology: Elementary Education 5 cr.
Completion of 30 credits

**Required Courses: 23 cr. hrs.**
TED 225 Developmental Learning Experiences of Young Children 3 cr.

**Prerequisite for all other Early Childhood courses:**
TED 335 Kindergarten Curriculum and Materials 3 cr.
TED 340 Pre-Kindergarten Curriculum 3 cr.
TED 410 Early Childhood Language Arts 3 cr.
TED 400 Supervision and Management Early Childhood Program 2 cr.
TED 405 Special Needs Child: Early Childhood Classroom 3 cr.
TED 330 Infant Toddler Development 3 cr.
TED 345 Parent Education and Family Development 3 cr.

**Student Teaching Requirement: 10 cr. hrs.**
TED 471 Student Teaching: Pre-kindergarten/Kindergarten (Co-/Prerequisite TED 400)
Earth Science Minor
Department of Plant and Earth Science
College of Agriculture, Food and Environmental Sciences

324 Agriculture Science Hall
(715) 425-3345
www.uwrf.edu/pes/


Earth Science Minor

Minor Requirements 21 Total Credits

Required Courses 14 cr. hrs.
GEOL 102 Introductory Geology Lab 1
GEOL 150 Historical Geology 4
GEOL 202 Oceanography 2
GEOL 269 Environmental Geology (writing intensive) 2
GEOL 330 Meteorology 2
PHYS 117 Introductory Astronomy 3

Electives 7 cr. hrs.
Select from 200 level or above Geology courses
Economics (ECON)
Department of Economics
College of Business and Economics

124 South Hall
(715) 425-3335
www.uwrf.edu/cbe/

John Walker –Chair, Jackie Brux, Hossein Eftekari, Pascal Ngeboka, Glenn Potts, Susan K. Rogers, Brian Schultz, Hamid Tabesh, John Walker, Ellen Schultz-Academic Adviser.

General Education Requirements

As listed on pages 29-30.

Admission Requirements

For all majors in the College of Business and Economics:
Completion of at least 32 required general education credits with a minimum GPA of 2.25.

Additionally, the following must be completed, or in progress for completion, during the semester preceding admission. Students may register prior to acceptance, but acceptance is required for attendance in CBE upper-level courses. Students with GPAs between 2.0 and 2.25 may petition to the respective department chair for consideration on a case-by-case basis.

For admission to the Economics major:
GPA of 2.25 in ECON 201 and 202; Econ 205; ENG 111 and 112

*These requirements apply to students entering UW-River Falls Fall Semester 2003 or later.

Economics Major-Liberal Arts

Major Requirements 35 Total Credits
Option A: College of Arts and Sciences
Required Courses: 20 cr. hrs.
ECON 201 Principles of Microeconomics 3 cr.
ECON 202 Principles of Macroeconomics 3 cr.
ECON 205 Quantitative Analysis 3 cr.
ECON 301 Intermediate Microeconomics 3 cr.
ECON 302 Intermediate Macroeconomics 3 cr.
ECON 326 Statistical Methods for Economics and Business 3 cr.
ECON 480 Senior Seminar (writing intensive) 2 cr.

Elective Courses: 15 cr. hrs.
Economics courses 300 level or above

Required Supporting Course: 3 cr. hrs.
ECON 226 Introduction to Statistics 3 cr.

Option B: College of Business and Economics
Required Courses: As listed for College of Arts and Sciences Option 20 cr. hrs.
Elective Courses: As listed for College of Arts and Sciences Option 15 cr. hrs.
Required Supporting Courses: 8 cr. hrs.
ECON 226 Introduction to Statistics 3 cr.
CSIS 215 Information Systems for Business Management 3 cr.
CBE 100 Orientation to CBE 1 cr.
CBE 200 Professional Development I 1 cr.

Economics Minor

Minor Requirements 24 Total Credits
Liberal Arts Option Required Courses: 15 cr. hrs.
ECON 201 Principles of Microeconomics 3 cr.
ECON 202 Principles of Macroeconomics 3 cr.
ECON 205 Quantitative Analysis 3 cr.
ECON 301 Intermediate Microeconomics 3 cr.
ECON 302 Intermediate Macroeconomics 3 cr.
Electives: Economics-300 level or above 9 cr. hrs.

Education Option Required Courses: 6 cr. hrs.
ECON 201 Principles of Microeconomics 3 cr.
ECON 202 Principles of Macroeconomics 3 cr.
Electives in Economics: 18 cr. hrs.
Choose from:
ECON 289 Special Topics: Economics 1-3 cr.
ECON 305 Money and Banking 3 cr.
ECON 312 Political Economy of Discrimination 3 cr.
ECON 316 Managerial Economics 3 cr.
ECON 324 Labor Economics 3 cr.
ECON 328 Domestic Topics in Third World Economic Development 3 cr.
ECON 329 International Topics in Third World Economic Development 3 cr.
ECON 332 Public Finance 3 cr.
ECON 334 Public Regulation 3 cr.
ECON 340 Contemporary International Trade Issues 3 cr.
ECON 342 International Finance 3 cr.
ECON 344 Comparative Economic Systems 3 cr.
ECON 362 History of Economic Thought 3 cr.
ECON 489 Special Topics: Economics 1-3 cr.
English (ENGL)
Department of English
College of Arts and Sciences

245 Kleinpell Fine Arts Building
(715) 425-3537
www.uwrf.edu/english/

Laura Zlogar–Chair, Jennifer Brantley, David Furniss, Greta Gaard, Larry Harred, Mialisa Hubbard Kathleen Hunzer, Nicholas Karolides, Annette Klemp, Steven Luebke, Richard McNamara, James Mulvey, Ronald Neuhaus, Michelle Parkinson, Vladimir Pavlov, Elizabeth Schnieder-Rebozo, Robyne Tiedeman, Marshall Toman, Ruth Wood

The Bachelor of Arts degree is offered in English, Literature Emphasis; English, Creating Writing Emphasis; or in Teaching English to Speakers of Other Languages (TESOL). The B.A. is a degree for the twenty-first century in its emphasis on broad learning, international studies, and the learning of languages. No minor is needed for this degree.

The B.A. in English, Literature Emphasis-Liberal Arts prepares students to be broadly educated, culturally and historically, and skilled in thinking critically, researching, and writing. The degree prepares students for jobs in business, government and nonprofit organizations, journalism, and publishing.

The B.A. in English, Creative Writing Emphasis-Liberal Arts gives students preparation in both creative writing and literature. This degree helps students interested in pursuing a graduate degree or a career in the publishing and writing fields.

The B.A. in Teaching English to Speakers of Other Languages-Liberal Arts prepares students to teach English to non-native speakers in other countries or in private schools, businesses, or organizations here in the U.S. See page 117-118 in the printed catalog for the program descriptions for TESOL.

The Bachelor of Science-Liberal Arts degree is offered in English or in Teaching English to Speakers of Other Languages (TESOL). The B.S. is designed for those who wish to supplement their expertise in English with a second field of concentrated study: a minor.

The B.S. in English, Literature Emphasis-Liberal Arts prepares students through their broad education and important general skills to enter various careers, and they choose minors that supplement their career goals. Some commonly chosen minors are history, film studies, journalism, professional writing, art, speech, and one of the modern languages. If a modern language is not chosen as a minor, a modern language course is strongly recommended as a liberal arts elective.

The B.S. in English, Creative Writing Emphasis-Liberal Arts gives students preparation in both creative writing and literature. This degree helps students interested in pursuing a graduate degree or a career in the publishing and writing fields.

The B.S. in Teaching English to Speakers of Other Languages-Liberal Arts prepares students to teach English to non-native speakers in other countries or in private schools, businesses, or organizations here in the U.S. A minor in a modern language is one of the ideal complementary minors, but TESOL majors choose a variety of minors as well.

The Bachelor of Science (Education) degree is primarily intended to certify students to teach English in public high schools though the core skills it develops have broad application as well. The B.S. in English-Education prepares students to teach literature, interpretive skills, writing, language, research, and critical thinking skills in high schools. Students must choose a minor. Minors in which students can obtain a second certification to teach in that subject are
popular choices. Some of these minors include speech communication and theatre arts, a modern language, journalism, and history.

The B.S. in Teaching English to Speakers of Other Languages-Education prepares students to teach children who are non-native speakers of English in the public schools. Depending on the educational setting in which the student intends to work, such a major can work well with any of the minors that are certifiable areas of study.

The Bachelor of Science in Broad Area English-Education degree is designed to provide prospective high school teachers with additional areas of study that support their core English courses and that respond to the current demands of the teaching situations in modern secondary schools. No minor is required with this major; the Broad Area in effect replaces the minor.

General Education Requirements

B.A. and B.S. Liberal Arts Majors as listed on pages 22-23 of the printed catalog with the following exceptions:
Humanities and Fine Arts: ENGL 241, 242, 243, 244, or 245. English majors should not take another of these; only one will count toward graduation.

Education as listed on pages 31-32 with the following exceptions:
Humanities and Fine Arts: 9 cr. hrs.
ENGL 243 Types of Literature 3
SCTA 105 Introduction to Theatre and Drama. 3
Social and Behavioral Sciences: 9 cr. hrs.
In addition to POLS 114 and PSYC 101, choose one of the following courses, which also satisfies the cultural diversity requirement for certification: ENGL 203, 206, 207, 212, 214, 235, 385, or 443.

English Major

Literature Emphasis - Liberal Arts: 36 Total Credits

Core Requirements: 12 cr. hrs.
ENGL 251 Advanced Composition 3 cr.
ENGL 253 Introduction to Literary Studies 3 cr.
ENGL 321 English Language: History and Culture 3 cr.
ENGL 335 Shakespeare 3 cr.

Required Courses: 12 cr. hrs.
ENGL 324 Survey of American Lit. I, Origins to 1900 (writing intensive) 3 cr.
ENGL 325 Survey of American Lit. II, 1900-1980 (writing intensive) 3 cr.
ENGL 331 Survey of British Lit. I, to 1800 (writing intensive) 3 cr.
ENGL 332 Survey of British Lit. II, 1800-Present (writing intensive) 3 cr.
A second period course in British literature may replace one of the British survey courses, or a second period course in American literature may replace one of the American survey courses. At least three survey courses must be taken.

Directed Electives: 9 cr. hrs.
English Liberal Arts majors may double count courses in the General Education Humanities/Fine Arts “Other” group with those same courses which are applicable to this directed elective requirement. These double countable courses are:
Select one genre, sub-genre, or diversity literature course: 3 cr. hrs.
ENGL 202 Literature of Science Fiction 3 cr.
ENGL 203 Literature of the African-American Experience 3 cr.
ENGL 206 Ethnic Film and Literature 3 cr.
ENGL 207 Literature of the Asian-American Experience 3 cr.
ENGL 212 The Native American in Literature 3 cr.
ENGL 214 Women in Literature 3 cr.
ENGL 222 Literature of Fantasy 3 cr.
ENGL 226 Detective Fiction 3 cr.
ENGL 231 The Short Story 3 cr.
ENGL 232 Contemporary Drama 3 cr.
ENGL 233 Introduction to Poetry 3 cr.
ENGL 234 Modern Novels 3 cr.
ENGL 235 American Autobiography 3 cr.
ENGL 300 Women and Film 3 cr.
ENGL 343 The Novel and Film Adaptations 3 cr.
ENGL 443 American Ethnic Women Writers 3 cr.

Select one period course, English, American or International 3 cr. hrs.
ENGL 341 European Literature (19th Century) 3 cr.
ENGL 426 Victorian Literature 3 cr.
ENGL 427 Modern British Literature: 1890-1940 3 cr.
ENGL 428 Modern British Literature: 1940-Present 3 cr.
ENGL 429 American Renaissance 3 cr.
ENGL 430 American Realism 3 cr.
ENGL 431 Modern American Fiction 3 cr.
ENGL 432 Contemporary American Literature 3 cr.
ENGL 441 Twentieth-Century International Literature 3 cr.

Select one English course at the 300-/400 level 3 cr. hrs.

General Electives: 3 cr. hrs.

Creative Writing Emphasis-Liberal Arts: 36 Total Credits

Required Courses: 18 cr. hrs.
Writing Component 9 cr. hrs.
ENGL 262 Creative Writing 3 cr.
ENGL 382 Writing Workshop in Prose and Poetry 3 cr.
ENGL 482 Writing Seminar in Fiction and Poetry 1-3 cr.

Directed Electives in Writing 9 cr. hrs.
(at least 6 of the credits must be from ENGL 368, 369, or 370)
ENGL 368 Writing Poetry 3 cr.
ENGL 369 Writing Fiction 3 cr.
ENGL 370 Writing Nonfiction 3 cr.
ENGL 382 Writing Workshop in Prose and Poetry 3 cr.

Supporting Courses: 12 cr. hrs.
ENGL 251 Advanced Composition 3 cr.
ENGL 253 Introduction to Literary Studies 3 cr.
ENGL 321 English Language: History and Culture 3 cr.
ENGL 331 Survey of English Literature I: to 1800 3 cr.

Directed Electives in Literature 6 cr. hrs.
Modern/Contemporary Period 3 cr. hrs.
ENGL 325 Survey of American Literature I 3 cr.
ENGL 332 Survey of English Literature II 3 cr.
ENGL 344 Major Authors 3 cr.
ENGL 432 Contemporary American Literature 3 cr.

Genre Courses (preferably in area of specialization) 3 cr. hrs.
ENGL 202 Literature of Science Fiction 3 cr.
ENGL 222 Literature of Fantasy 3 cr.
ENGL 226 Detective Fiction 3 cr.
ENGL 231 The Short Story 3 cr.
ENGL 232 Contemporary Drama 3 cr.
ENGL 233 Introduction to Poetry 3 cr.
ENGL 234 Modern Novels 3 cr.
ENGL 235 American Autobiography 3 cr.
ENGL 250 Children’s Literature 3 cr.
ENGL 342 Developments in the Novel 3 cr.
ENGL 355 Literature for Adolescents 3 cr.

**English Minor**

This minor has a Literature Emphasis.

**Liberal Arts: 24 cr. hrs.**

**Core Requirements as listed for English Major, Literature Emphasis above 12 cr. hrs.**

**Required Courses: 6 cr. hrs.**

ENGL 324 Survey of American Lit. I, Origins to 1900 (writing intensive) 3 cr.
ENGL 325 Survey of American Lit. II, 1900-1980 (writing intensive) 3 cr.
ENGL 331 Survey of British Lit. I, to 1800 (writing intensive) 3 cr.
ENGL 332 Survey of British Lit. II, 1800-Present (writing intensive) 3 cr.

One survey course must cover the period before 1800.

**Directed Electives: 6 cr. hrs.**

- English Liberal Arts minors may “double count” courses in the General Education Humanities/Fine Arts “Other” group with those same courses which are applicable to this directed elective requirement. These double countable courses are:
  - ENGL 231, 232, 233, and 234.

**Select one genre course: 3 cr. hrs.**

ENGL 231 The Short Story 3 cr.
ENGL 232 Contemporary Drama 3 cr.
ENGL 233 Introduction to Poetry 3 cr.
ENGL 234 Modern Novels 3 cr.
ENGL 343 The Novel and Film Adaptations 3 cr.
ENGL 344 Major Authors 3 cr.

**Select one period course, English, American or International: 3 cr. hrs.**

ENGL 341 European Literature (19th Century) 3 cr.
ENGL 426 Victorian Literature 3 cr.
ENGL 427 Modern British Literature: 1890-1940 3 cr.
ENGL 428 Modern British Literature: 1940-Present 3 cr.
ENGL 429 American Renaissance 3 cr.
ENGL 430 American Realism 3 cr.
ENGL 431 Modern American Fiction 3 cr.
ENGL 432 Contemporary American Literature 3 cr.
ENGL 441 Twentieth-Century International Literature 3 cr.

**English Major - Education**

**Professional Courses: 36 cr. hrs.**

TED 120 Introduction to Education and Instructional Technology 3 cr.
TED 212 Educational Psychology (writing intensive) 5 cr.
TED 420 School and Society (admission to teacher education required) 3 cr.
TED 422 Content Area Literacy in Middle and Secondary School 3 cr.
TED 432 Techniques of Middle/Secondary Education: English 3 cr.

Secondary certification in the major discipline only; for certification in the minor as well, techniques must be taken in that discipline for an additional 3 credits, for a total of 39.

PSYC 330 Exceptional Child 3 cr.
TED 414 Transescent Development, Middle School Methods 4 cr.
TED 473 Student Teaching: Middle Level. 6 cr.

Required for Middle School certification.
TED 474 Student Teaching: Secondary 6 cr.
Major Requirements: English-Education 39 cr. hrs.
Core Requirements: 12 cr. hrs.
ENGL 251 Advanced Composition 3 cr.
ENGL 253 Introduction to Literary Studies 3 cr.
ENGL 321 English Language: History and Culture 3 cr.
ENGL 335 Shakespeare 3 cr.
Required Courses: 24 cr. hrs.
ENGL 320 Structure of English 3 cr.
ENGL 324 Survey of American Lit. I, Origins to 1900 (writing intensive) 3 cr.
ENGL 325 Survey of American Lit. II, 1900-1980 (writing intensive) 3 cr.
ENGL 331 Survey of British Lit. I, to 1800 (writing intensive) 3 cr.
ENGL 332 Survey of British Lit. II, 1800-Present (writing intensive) 3 cr.
ENGL 355 Literature for Adolescents 3 cr.
ENGL 361 Composition Theory 3 cr.
ENGL 441 Twentieth-Century International Literature 3 cr.
A second period course in British literature may replace one of the British survey courses, or a second period course in American literature may replace one of the American survey.

Directed Electives: 3 cr. hrs.
Select one period course English or American
ENGL 341 European Literature (19th Century) 3 cr.
ENGL 426 Victorian Literature 3 cr.
ENGL 427 Modern British Literature: 1890-1940 3 cr.
ENGL 428 Modern British Literature: 1940-Present 3 cr.
ENGL 429 American Renaissance 3 cr.
ENGL 430 American Realism 3 cr.
ENGL 431 Modern American Fiction 3 cr.
ENGL 432 Contemporary American Literature 3 cr.

English Education Minor

English Education Minor: 27 Total Credits
Core Requirements: 12 cr. hrs.
ENGL 251 Advanced Composition 3 cr.
ENGL 253 Introduction to Literary Studies 3 cr.
ENGL 321 English Language: History and Culture 3 cr.
ENGL 335 Shakespeare 3 cr.
Required Courses: 6 cr. hrs.
ENGL 320 Structure of English 3 cr.
ENGL 361 Composition Theory 3 cr.

Directed Electives: 6 cr. hrs.
One survey course must cover the period before 1800.
A. Select one survey course.
ENGL 324 Survey of American Lit. I, Origins to 1900 (writing intensive) 3 cr.
or ENGL 325 Survey of American Lit. II, 1900-1980 (writing intensive)
B. Select one survey or period course.
ENGL 331 Survey of British Lit. I, to 1800 (writing intensive) 3 cr.
or ENGL 332 Survey of British Lit. II, 1800-Present (writing intensive)
ENGL 426 Victorian Literature 3 cr.
ENGL 427 Modern British Literature: 1890-1940 3 cr.
ENGL 428 Modern British Literature: 1940-Present 3 cr.
Supporting Course: 3 cr. hrs.
ENGL 355 Literature for Adolescents 3 cr.
Broad Area English Education Major

Broad Area English Education Major: 63 Total Credits
The Broad Area English Education Major consists of four groups of courses:

1. Core Requirements and Required Courses: 36 cr. hrs.
   ENGL 251 Advanced Composition 3 cr.
   ENGL 253 Introduction to Literary Studies 3 cr.
   ENGL 321 English Language: History and Culture 3 cr.
   ENGL 320 Structure of English 3 cr.
   ENGL 325 Survey of American Lit. II, 1900-1980 (writing intensive) 3 cr.
   ENGL 335 Shakespeare 3 cr.
   ENGL 332 Survey of British Lit. II, 1800-Present (writing intensive) 3 cr.
   ENGL 355 Literature for Adolescents 3 cr.
   ENGL 361 Composition Theory 3 cr.
   ENGL 441 Twentieth-Century International Literature 3 cr.
   Students may choose between:
   ENGL 324 Survey of American Lit. I, Origins to 1900 (writing intensive) 3 cr.
   or ENGL 331 Survey of British Lit I, to 1800 (writing intensive) 3 cr.
   Students who take ENGL 324 must choose one of the following period courses:
   ENGL 426 Victorian Literature 3 cr.
   ENGL 427 Modern British Literature: 1890-1940 3 cr.
   ENGL 428 Modern British Literature: 1940-Present 3 cr.
   Students who take ENGL 331 must choose one of the following period courses:
   ENGL 429 American Renaissance 3 cr.
   ENGL 430 American Realism 3 cr.
   ENGL 431 Modern American Fiction 3 cr.
   ENGL 432 Contemporary American Literature 3 cr.

2. Areas of skills that correlate highly with current needs: 12 cr. hrs.
   One reading pedagogy course: 3 cr.
   TED 461 The Psychology and Pedagogy of Literacy 3 cr.
   Select one of the following journalism courses: 3 cr.
   JOUR 112 Writing for the Mass Media 3 cr.
   JOUR 120 Radio and Television Field Production 3 cr.
   JOUR 269 Feature Writing for Magazines and Newspapers 3 cr.
   JOUR 360 Opinion Writing 3 cr.
   Select one of the following speech or theater arts courses: 3 cr.
   SCTA 121 Acting I: Basic Techniques 3 cr.
   SCTA 208 Problem Solving in Small Group Communication 3 cr.
   SCTA 211 Public Speaking 3 cr.
   SCTA 221 Acting II: Characterization 3 cr.
   SCTA 223 Oral Interpretation of Literature 3 cr.
   SCTA 311 Persuasion 3 cr.
   SCTA 328 Creative Dramatics for Children and Special Populations 3 cr.
   SCTA 334 Playwriting 3 cr.
   SCTA 335 Directing I 3 cr.
   Select one of the following film studies courses: 3 cr.
   SCTA 200 Introduction to Film Studies 3 cr.
   SCTA 248 Film Cultures in Conflict 3 cr.
   ENGL 206 Ethnic Film and Literature 3 cr.
   ENGL 300 Women and Film 3 cr.
   ENGL 301 History of Film 3 cr.
   ENGL 343 The Novel and Film Adaptations 3 cr.
   ENGL 448 Teaching of Film in the Secondary School 3 cr.
HIST 389 Topics in History (Film) 3 cr.

3. Selected areas of content necessary for a broadened perspective: 12 cr. hrs.
Choose two courses from either cultural area of special focus

**World Culture, Select two to total 6 cr.**
ART 211 Western Art to 1500 3 cr.
ART 212 Art History from 1500 3 cr.
ART 314 Art of China, India and Japan 2 cr.
ART 318 Latin American Art 2 cr.
HIST 321 The Middle Ages 3 cr.
HIST 322 The Renaissance 3 cr.
HIST 323 The Reformation 3 cr.
HIST 324 Absolutism, Enlightenment, and Revolution 3 cr.
HIST 327 World War I to World War II 3 cr.
HIST 328 World War II and the Cold War 3 cr.
HIST 330 Revolutions in Modern History 3 cr.
MUS 300 World Music 3 cr.
PHIL 221 Ancient Philosophy 3 cr.
PHIL 222 Hellenistic and Medieval Philosophy 3 cr.
PHIL 223 Origins of Modern Phil. From Bacon to Kant 3 cr.
PHIL 224 Existentialism and Late Modern Philosophy 3 cr.
PHIL 230 Logical Reasoning 3 cr.
PHIL 235 Philosophy of the Arts 3 cr.
HUM 255 Arts and Ideas I 4 cr.
HUM 256 Arts and Ideas II
HUM 498 Senior Level Interdisciplinary Capstone Course in Humanities 2 cr.

**or American Culture, Select two:**
ART 311 American Art to 1865 3 cr.
ART 312 American Art since 1865 3 cr.
HIST 103 U. S. History to 1877 3 cr.
HIST 104 U. S. History Since 1865 3 cr.
HIST 205 Women’s History: United States 3 cr.
HIST 206 Native Americans and the United States 3 cr.
HIST 207 African American History 3 cr.
HIST 369 American Intellectual History 3 cr.
MUS 200 American Music 3 cr.
SOCI 228 Native American Cultures 3 cr.
SCTA 230 Playwrights of Color 3 cr.
SCTA 339 American Theatre 3 cr.

**Select one of the following mass media or journalism courses: 3 cr. hrs.**
Majors are encouraged to take JOUR 455 or PHIL 316.
JOUR 101 Introduction to Mass Communications 3 cr.
JOUR 320 Journalism and Public Opinion 3 cr.
JOUR 345 History of Mass Communication 3 cr.
JOUR 455 Mass Media and Society 3 cr.
SCTA 353 Mass Media and Popular Culture 3 cr.
PHIL 316 Media Ethics 3 cr.

**Select one of the following speech or theater courses: 3 cr. hrs.**
SCTA 306 Nonverbal Communication 3 cr.
SCTA 314 Introduction to Criticism for Oral Communication 3 cr.
SCTA 316 Organizational Communication 3 cr.
SCTA 319 Freedom to Speak 3 cr.
SCTA 407 Listening Instruction 3 cr.
SCTA 414 Speech in History 3 cr.

4. Choose a directed elective from one of the following: 3 cr. hrs.
Dramatic Literature, choose from the following: 3 cr. hrs.
ENGL 232 Contemporary Drama 3 cr.
SCTA 337 History of Theatre and Dramatic Literature: Ancient Traditions through Renaissance Drama 3 cr.
SCTA 338 History of Theatre and Dramatic Literature: 18th Century to the Present 3 cr.
SCTA 339 American Theatre 3 cr.
\textbf{or Film Studies 3 cr. hrs.}
FILM 200-499; ENGL 300, 343, 448; JOUR 245, 302;
GERM 315; SCTA 160, 248, 260, 448, and topics courses related to film.
\textbf{or Writing Course 3 cr. hrs.}
ENGL 262, 266, 367, 368, 369, 370, 372, 373;
JOUR 112, 113, 115, 230, 241, 245, 251, 252, 269, 360
\textbf{or any Journalism Course 3 cr. hrs.}
JOUR 101-499
\textbf{or Humanities Course Choose from the following: 3 cr. hrs.}
HUM 255 Arts and Ideas I 4 cr.
HUM 256 Arts and Ideas II 4 cr.
The environmental science major is designed to prepare students to face challenges in environmental quality management and sustainable development. Environmental science majors are prepared to monitor, model and manage environmental systems in the areas of environmental quality and risk evaluation, sampling and analysis, remediation and regulatory compliance. Graduates pursue careers in environmental consulting firms, local, state and federal environmental agencies or corporations. Students with environmental research interests are also prepared to pursue advanced degrees.

The major is interdisciplinary within the College of Agriculture, Food and Environmental Sciences and the College of Arts and Sciences, and is administered by the department of plant and earth science. Departments contributing to the major include agricultural engineering technology, biology, chemistry, geography, physics, and plant and earth science. Required foundation courses are in the College of Agriculture, Food and Environmental Sciences or in the College of Arts and Sciences.

General Education Requirements

College of Agriculture, Food and Environmental Science: As listed on pages 18-19 with the following exceptions:
Social and Behavioral: ESM 105 required.
Sciences: GEOL 101, CHEM 121 or 110 with Dean’s Approval, and BIOL 100 required.

College of Arts and Sciences: As listed on pages 22-23.

Foundation Courses in Agriculture 9 cr. hrs.
SOIL 210 Introductory Soil Science 3 cr.
ESM 151 Introduction to Land Use Theory and Practice 3 cr.
Select 1 from:
AGEN 150 Agricultural and Environmental Engineering Technology 3 cr.
or AGEC 230 Agricultural Economics I 3 cr.
CROP 161 Introduction to Plant Science 3 cr.
or HORT 161 Introduction to Plant Science

OR College of Arts and Sciences Requirements: 9 cr. hrs.
SOCI 245 Environmental Sociology 3 cr.
PHIL 303 Environmental Ethics 3 cr.
ESM 307 Multicultural Perspectives on the Environment 3 cr.

Environmental Science Major

Environmental Science Core 28 cr. hrs.
ENGL 367 Technical Writing 3 cr.
ES 100 Environmental Science Freshman Seminar 1 cr.
ESM 220 Environmental Sustainability: Theory, Issues, and Management 3 cr.
ESM 305 Environmental Impact Assessment 2 cr.
ESM 360 Applied Hydrology and Water Quality 4 cr.
ESM 412 Chemical Fate and Transport in the Environment 3 cr.
ESM 413 Environmental Analysis 4 cr.
ESM 485 Seminar in Resource Management 1 cr.
GEOL102 Introductory Geology Lab 1 cr.

Choose one of the following:
ESM 303 Environmental Policies and Administration 3 cr.
BIOL 355 Environmental Law 3 cr.
POLS 355 Environmental Law 3 cr.

Choose one of the following:
MATH 226 Fundamentals of Statistics 3 cr.
MATH 326 Applied Statistics 3 cr.
ANSC 341 Biometrics 3 cr.
GEOG 365 Quantitative Techniques for Geographers 3 cr.

Required Supporting Courses: 29-30 cr. hrs.
MATH 166 Calculus 4 cr.
CHEM 122 General Chemistry II 5 cr.

Choose one of the following two chemistry lecture/lab series:
A. CHEM 231 Organic Chemistry I 3 cr.
   CHEM 236 Organic Chemistry Lab I 1 cr.
B. CHEM 251 Analytical Chemistry 2 cr.
   CHEM 256 Analytical Chemistry Lab 1 cr.

Choose one of the following two physics series A. or B.:
A. PHYS 151 General Physics I 4 cr.
   PHYS 156 General Physics Lab I 1 cr.
B. PHYS 161 General Physics I 4 cr.
   PHYS 101 General Physics Lab I 1 cr.

Choose one of the following two courses:
BIOL 210 General Botany 3 cr.
BIOL 230 General Zoology 3 cr.

Choose one of the following two courses:
BIOL 240 Cell and Molecular Biology 3 cr.
BIOL 324 Microbiology 3 cr.

Directed Electives: 18 cr. hrs.
A minimum of 6 credits in 400 level or greater. Courses taken as part of the supporting requirement cannot be double counted as directed electives.
SOIL 311, 325, 350, 440, 460 3-4 cr.
BIOL 210, 230, 240, 310, 324, 330, 344, 354, 360, 412, 413, 434, 444 3-4 cr.
GEOG 212, 250, 255, 316, 360, 368, 379, 412, 450, 460 3-12 cr.
PHYS 152, 157, 162, 102, CHEM 231 and 236, 232 and 237, 251 and 256, 356 1-3 cr.
AGEN 325, 365, 425, GENG 450 3-4 cr.
GEOL 269, 327, 330, 417, 445 2-4 cr.
ESM 270, 333, 363, 370, 377 2-4 cr.
AGEC 450 3 cr.

Environmental Studies Minor

Environmental Studies Minor: 22 Total Credits
Required Courses: 10 cr. hrs.
ESM 105 is a prerequisite
ESM 220 Environmental Sustainability: Theory, Issues, and Management 3 cr.
ESM 303 Environmental Policies and Administration 3 cr.
GEOG 110 Physical Environment: Patterns and Systems (3) and GEOG 111 Laboratory for Physical Environments: Patterns and Systems (1) 4 cr.
or GEOL 101 Introductory Geology (3) and GEOL 102 Introductory Geology Lab (1) 4 cr.

**Directed Electives: 12 cr. hrs.**
(6 credits at the 300 level or above)
ESM 109, 151, 307, 377, 490 3 cr.
ESM 300 or GEOG 300 3 cr.
GEOL 202, 269, 490 1-3 cr.
GEOL 330 or GEOG 300 2-3 cr.
GEOG 490, 499 1-3 cr.
BIOL/POLS 355 3 cr.
PHIL 303 3 cr.
CHEM 200 3 cr.
SOCI 245 3 cr.
Ethnic Studies (ETHN)
Interdisciplinary Program

157 Centennial Science Hall
(715) 425-4689
www.uwrf.edu/ethnic studies

Cyndi Kernahan–Coordinator

The ethnic studies minor is designed to allow students to study and focus their attention on the ethnic experiences in America. In addition, the minor provides courses that allow students to examine ethnicity in a broader international context. The courses included in the minor have been selected to focus the student’s study as well as to allow for individual flexibility. It is possible for Arts and Sciences majors to double minor in ethnic studies and women’s studies with minimal additional credits. The double minor is flexible enough for students to graduate on time while supporting virtually any major. By choosing the women’s studies/ethnic studies double minor, students also fulfill six hours of the Arts and Sciences Liberal Arts requirements as well as the three-hour cultural diversity requirement.

Ethnic Studies Minor

Minor Requirements: 24 Total Credits

Required Courses: 3 cr. hrs.
ETHN 200 Introduction to Ethnic Studies 3 cr.

Directed Electives: Electives in American Ethnicity 6 cr. hrs.
ECON 312 Political Economy of Discrimination 3 cr.
ENGL 206 Ethnic Film and Literature 3 cr.
ENGL 235 American Autobiography 3 cr.
ENGL 443 American Ethnic Women Writers 3 cr.
HIST 204 U.S. Immigration and Ethnic History 3 cr.
MNGT 330 Managing Workplace Diversity 3 cr.
PHIL 245 Islamic and Oriental Religions in the U.S. 3 cr.
POLS 212 The Politics of Equality and Inequality in the United States 3 cr.
PSYC 285 Psychology of Prejudice and Racism 3 cr.
SCTA 230 Playwrites of Color 3 cr.
SCTA 313 Intercultural Communication 3 cr.

Directed Electives: 9 cr. hrs.

Electives in Specific Ethnic Groups
ANTH 228 Native American Cultures 3 cr.
ENGL 203 Literature of the African American Experience 3 cr.
ENGL 212 The Native American in Literature 3 cr.
ETHN 270 Puerto Rican Society 3 cr.
HIST 206 Native Americans and the United States 3 cr.
HIST 207 African-American History 3 cr.
HIST 208 History of Mexican-Americans 3 cr.
MUS 255 History of Jazz 3 cr.

Directed Electives: Supporting Courses 6 cr. hrs.

Courses Relating to an Ethnic Heritage
ART 314 Art of China, India, and Japan 3 cr.
ART 318 Latin American Art 2 cr.
GEOG 342 Latin America 3 cr.
GEOG 343 Africa 3 cr.
GEOG 344 Asia and Oceania 3 cr.
HIST 201 Introduction to Asian Civilization 3 cr.
HIST 202 Introduction to Latin American Civilizations 3 cr.
POLS 348 Politics of East Asia 3 cr.

**Courses Relevant to the American Ethnic Experience**
GEOG 237 Poverty in the United States 3 cr.
WMST 200 Introduction to Women’s Studies 3 cr.
ESM 307 Multicultural Perspectives on the Environment 3 cr.

**Courses Relating to International Race and Ethnicity maximum of 3 cr. hrs.**
MNTG 310 Culture and Business 3 cr.
MODL 376 Mexico: A Cultural Experience 3 cr.
HIST 436 History of Colonialism and Imperialism 3 cr.
CBE 370 International Study Tour for Business and Economics 3 cr.

**Double Minor: Ethnic Studies & Women's Studies.**
Farm Management
Department of Agricultural Economics
College of Agriculture, Food and Environmental Sciences

103 Agriculture Science Hall
(715) 425-3298
www.uwrf.edu/ag-economics/

Nate Splett–Chair, Brenda Boetel, Gregg Hadley, Lewis May, Stanley Schraufnagel, David Trechter.

Farm Management Minor

Minor Requirements 24 Total Credits
Required courses:
AGEC 230 Agricultural Economics I 3 cr.
AGEC 240 Cooperatives 3 cr.
AGEC 305 Agricultural Business Accounting 3 cr.
AGEC 355 Agricultural Markets and Prices (writing intensive) 3 cr.
AGEC 360 Farm Management 3 cr.
AGEC 365 Agricultural Finance 3 cr.
AGEC 456 Commodity Marketing 3 cr.
AGEC 440 Agricultural Policy I (writing intensive) 3 cr.
Food Science and Technology (FDSC)
Department of Animal and Food Science
College of Agriculture, Food and Environmental Sciences

247 Agriculture Science Hall
(715) 425-3704
www.uwrf.edu/animal-science/

Anthony Jilek-Chair, Larry Baumann, Perry Clark, Dennis Cooper, Thomas Goerke, Kristina Hiney, Lawrence Kasten, Steven Kelm, Ranee May, Gary Onan, Peter Rayne, Stephen Ridley, Purnendu C. Vasavada, Bonnie Walters, Steve Watters

General Education Requirements
As listed on pages 18-19 with the following exceptions:
Sciences Required Courses: CHEM 121 or 110 with Dean’s Approval, BIOL 150, PHYS 151 or 161
Mathematics Required Courses: MATH 147 or 166

Foundation Courses in Agriculture: 12 cr. hrs.
FDSC 112 Intro to Food Science 3 cr.
ANSC 231 Principles of Nutrition 3 cr.
AGEN 352 Food Engineering 3 cr.
AGEC 230 Agriculture Economics 1 3 cr.

Food Science and Technology Major

Food Science and Technology Major: 43-47 Total Credits
Required Courses: 29 cr. hrs.
FDSC 113 Intro Food Science Lab 1 cr.
Choose one of the following three courses:
FDSC 202 Dairy Manufacturing I-required for Dairy Tech Option
or FDSC 238 Meat and Meat Products 3 cr.
or FDSC 259 Cereal Technology
FDSC 285 Seminar in Food Science 1 cr.
FDSC 312 Food Processing 4 cr.
FDSC 313 Food Processing Lab 1 cr.
FDSC 320 Food Quality Assurance 2 cr.
FDSC 335 Food Microbiology 4 cr.
FDSC 360 Food Chemistry 3 cr.
FDSC 385 Seminar in Food Science 1 cr.
FDSC 422 Product Development and Sensory Evaluation 4 cr.
FDSC 461 Food Analysis 4 cr.
FDSC 485 Seminar in Food Science 1 cr.

Required Supporting Courses: 19 cr. hrs.
CHEM 122 General Chemistry II 5 cr.
CHEM 230 General Organic Chemistry 3 cr.
or CHEM 231 Organic Chemistry I cr.
AGBI 251 Agricultural Biochemistry 3 cr.
or CHEM 361 Biochemistry
AGBI 252 Agricultural Biochemistry Laboratory Techniques 1 cr.
BIOL 324 Bacteriology 4 cr.
ANSC 341 Biometrics 3 cr.
FDSC 270 Internship 2-4 cr.

**Select Industry, Dairy Technology, or Science Option below:**

**Industry Option 14-16 cr. hrs**
ACCT231 Principles in Accounting I 3 cr.

**Select two from:**
FINC 345 Managerial Finance 3 cr.
or AGEC 365 Agricultural Finance
MNGT 300 Principles of Management 3 cr.
or AGEC 468 Agribusiness Firm Management
MKTG 310 Principles of Marketing 3 cr.
or AGEC 355 Agricultural Markets and Prices

**Electives (choose any Food Science courses) 5-7 cr. hrs.**

**Dairy Technology Option 14-18 cr. hrs.**
FDSC 302 Dairy Manufacturing II 3 cr.
FDSC 469 Dairy Plant Management 2 cr.
FDSC 470 Dairy Plant Management Lab 1 cr.
AGEC 355 Agricultural Markets and Prices 3 cr.
AGEC 468 Agribusiness Firm Management 3 cr.

**Electives (choose any Food Science courses) 2-4 cr. hr.**

**Science Option - IFT Approved Curriculum 14-16 cr. hrs.**
CHEM 232 Organic Chemistry II 3 cr.
CHEM 236 Organic Chemistry Lab I 1 cr.
CHEM 237 Organic Chemistry Lab II 1 cr.
MATH 167 Calculus II 4 cr.

**Electives (choose any Food Science Courses) 5-7 cr. hrs.**

**Food Science Minor**

**Food Science Minor: 22 Total Credits**

**Required Courses: 17 cr. hrs.**
FDSC 112 Intro to Food Science 3 cr.
FDSC 113 Intro Food Science Lab 1cr.

**Choose one of the following three courses:**
FDSC 202 Dairy Manufacturing I
or FDSC 238 Meat and Meat Products
or FDSC 259 Cereal Technology 3 cr.

**Choose one of the following:**
FDSC 240 Meat Product Processing 3 cr
FDSC 302 Dairy Manufacturing II 3 cr.
FDSC 312 Food Processing 4 cr.
FDSC 313 Food Processing Lab 1 cr.
FDSC 335 Food Microbiology 4 cr.
BIOL 324 Bacteriology 4 cr.

**Select from: (Must be 300 level or above) 6-7 cr.**
All remaining Food Science Courses
CHEM 355 Separation Science Laboratory
AGBI 251 and 252 Agricultural Biochemistry and Lab or CHEM 361 Biochemistry I
AGEN 352 Food and Process Engineering
Film Studies (FILM)
Interdisciplinary

260 Kleinpell Fine Arts
(715) 425-3354
www.uwrf.edu/film-studies-minor/

Kathleen Hunzer-Coordinator

Film Studies is an interdisciplinary minor offered by four departments: English, History, Journalism, and Speech Communication and Theatre Arts. Film Studies examines film as an art form, as an industry, and as the most popular and most influential communication medium of the twentieth century. Film Studies provides an interdisciplinary approach to visual literacy as it introduces students to film history, theory, criticism, and production.

Film Studies Minor

Film Studies Minor: 23-24 Total Credits
Required Courses: 8-9 cr. hrs.
FILM 200 Introduction to Film Studies 3 cr.
or SCTA 200 Introduction to Film Studies
FILM 301 History of Film 3 cr.
or ENGL 301 History of Film
or HIST 301 History of Film
or JOUR 301 History of Film
or SCTA 301 History of Film
FILM 499 Directed Project in Film 2-3 cr.

Criticism Electives: 6-9 cr. hrs.
FILM 206 Ethnic Film and Literature 3 cr.
FILM 248 Cultures in Conflict 3 cr.
FILM 300 Women and Film 3 cr.
FILM 302 History of Documentary 3 cr.
FILM 343 The Novel and Film Adaptations 3 cr.
FILM 442 World Cinema 3 cr.

Directed Electives: 6-9 cr. hrs.
FILM 160 TV Studio Production 3 cr.
FILM 232 Makeup for Theatre, Film, and Video 3 cr.
FILM 245 Writing for Film and Television 3 cr.
FILM 260 Electronic Field Production 3 cr.
FILM 261 Electronic Media Copy Writing 3 cr.
FILM 289 Special Topics: Film .5-3 cr.
(Co-listed with ENGL and MODL, which offer individual courses)
FILM 310 Sociology Through Film 3 cr.
FILM 315 German Classic and Modern Film 3 cr.
FILM 360 Corporate Electronic Communication 3 cr.
FILM 389 Special Topics 2-3 cr.
(Co-listed with HIST, JOUR, MUS, SCTA, SOCI, which offer individual courses)
FILM 448 Teaching Film in the Secondary School 3 cr.
FILM 489 Special Topics 2-3 cr.
(Co-listed with ENGL and HIST, which offer individual courses)
FILM 495 Independent Study 1-3 cr.
The General Education Program

All undergraduate students must complete General Education Program requirements comprising slightly fewer than one-third of the total credits needed to earn a degree. The General Education Program is designed to develop essential academic skills, to acquaint students with their cultural heritage, and to provide them with a broad base of liberal studies in the humanities, mathematics, and in the social and physical sciences. This program will serve as a foundation for study in a major. Further, it will develop breadth of knowledge and will cultivate the critical judgment necessary for mature and responsible lives in work, in leisure and as citizens of the nation and the world.

I. Skills to be developed include:

1. to read, write, speak and listen effectively.
2. to understand mathematical reasoning, to interpret numerical data and to perform mathematical operations.
3. to think critically, to analyze problems systematically and to integrate knowledge from the humanities and the social and physical sciences.

II. Breadth of knowledge to be developed includes:

1. to understand historical perspectives.
2. to understand important literature of past and contemporary cultures.
3. to understand the ways in which artistic forms and styles represent and interpret the human experience.
4. to understand the principles and the methods of the basic physical and life sciences, including laboratory work.
5. to understand the concepts and methods of inquiry in the social sciences.
6. to understand the importance of one's physical and psychological well-being.

III. Elements of critical judgment to be developed include:

1. to understand the impact of technology upon contemporary culture.
2. to gain a global perspective of human culture, recognizing that this century requires such perspective.
3. to develop a sense of ethical and social responsibility.
Geography (GEOG)  
Department of Geography and Mapping Sciences  
College of Arts and Sciences

344 Kleinpell Fine Arts Building  
(715) 425-3264  
www.uwrf.edu/geography/

Charles Rader–Chair, John Heppen, Donald Petzold

Geography is a wide-ranging discipline which asks two questions: “Where are things located?”, but even more important, “Why are they located where they are?” While the answer to the former is largely descriptive, the answer to the latter is based on analysis of data. The modern geographer uses data from many sources to assess the constantly changing physical and human landscapes of the earth’s surface from local to global scales. Mapping and analyzing these physical and cultural patterns with the aid of Geographic Information Systems (GIS) involve geographers in many types of decision making. The geography major allows students to relate their studies in the humanities and social sciences to their work in the natural sciences. The geography curriculum can be tailored to those who have broad interdisciplinary interests and to those who have a focused interest in one of the geography subfields: human geography, physical geography or Geographic Information Systems (GIS) and cartography. In addition to the geography major and minor, the department offers a GIS/Cartography minor. Coursework prepares students for careers in GIS applications and digital map production. The department offers various courses in cartographic theory, GIS, and map design. All GIS and cartography courses are computer based.

General Education Requirements

BA and BS Liberal Arts majors as listed on pages 22-23.  
BS Education majors as listed on pages 31-32.

Geography Major–Liberal Arts

Geography Major - Liberal Arts: 36 Total Credits  
(without a Cartography Minor)

Required Courses: 18 cr. hrs.
GEOG 110 Physical Environment: Patterns and Systems 3 cr.
GEOG 111 Lab for Physical Environment: Patterns and Systems 1 cr.
GEOG 120 Human Geography 3 cr.
GEOG 240 United States 3 cr.
GEOG 250 Introduction to Cartography and GIS 3 cr.
GEOG 365 Quantitative Techniques for Geographers and Cartographers 3 cr.
GEOG 401 Senior Colloquium in Geography 2 cr.

Directed Electives 6 cr. hrs.
Choose 3 credits from the following:
GEOG 241 Wisconsin 3 cr.
GEOG 242 Canada 3 cr.
GEOG 340 Europe 3 cr.
GEOG 342 Latin America 3 cr.
GEOG 343 Africa 3 cr.
GEOG 344 Asia and Oceania 3 cr.

Choose 3 credits from the following:
GEOG 212 Weather and Climate 3 cr.
GEOG 213 Landforms of North America 3 cr.
GEOG 214 World Patterns of Plants and Animals 3 cr.
GEOG 220 Economic Geography 3 cr.
GEOG 237 Poverty in the United States 3 cr.
GEOG 255 Thematic Map Design 3 cr.
GEOG 316 The Physical Environment of Urban Areas 3 cr.
GEOG 322 Urban Geography 3 cr.
GEOG 324 Historical Geography of the United States 3 cr.
GEOG 360 Geographic Information Systems: Theory and Methods 3 cr.
GEOG 368 Geoprocessing Techniques 3 cr.
GEOG 378 Semester Abroad 3-6 cr.
GEOG 379 Geography Internship 3-12 cr.
GEOG 385 Interdisciplinary Seminar on the American Frontier 3 cr.
GEOG 389 Topics in Geography .5-3 cr.
GEOG 412 Advanced Climatology 3 cr.
GEOG 428 Political Geography 3 cr.
GEOG 450 Advanced Map Design and Production 3 cr.
GEOG 460 Advanced Geographic Information Systems 3 cr.
GEOG 490 Readings in Geography 1-3 cr.
GEOG 499 Independent Study 1-2 cr.
**Electives: 12 cr. hrs.**
Must be numbered 200 and above with at least one numbered 400 or above, see courses listed in Directed Electives.

**Geography Major - Liberal Arts with GIS/Cartography Minor**

**Geography Major - Liberal Arts with Cartography Minor**

**Major Requirements 36 Total Credits**

**Required Courses: 15 cr. hrs.**
GEOG 110 Physical Environment: Patterns and Systems 3 cr.
GEOG 111 Lab for Physical Environment: Patterns and Systems 1 c.
GEOG 120 Human Geography 3 cr.
GEOG 240 United States 3 cr.
GEOG 365 Quantitative Techniques for Geographers and Cartographers 3 cr.
GEOG 401 Senior Colloquium in Geography 2 cr.

**Directed Electives: 6 cr. hrs.**
(See Geography Major without a Cartography Minor)

**Electives: 15 cr. hrs.**
(See Geography Major without a Cartography Minor)

**Geography Minor - Liberal Arts**

**Geography Minor - Liberal Arts: 22 Total Credits**

**Required Courses: 13 cr. hrs.**
GEOG 110 Physical Environment: Patterns and Systems 3 cr.
GEOG 111 Lab for Physical Environment: Patterns and Systems 1 cr.
GEOG 120 Human Geography 3 cr.
GEOG 240 United States 3 cr.
GEOG 250 Introduction to Cartography and GIS 3 cr.

**Electives: 9 cr. hrs.**
(Courses numbered 200 and above)

**Geography Minor - Elementary and Secondary Education**
Geography Minor - Elementary and Secondary Education: 22 Total Credits
Required Courses: 16 cr. hrs.
GEOG 110 Physical Environment: Patterns and Systems 3 cr.
GEOG 111 Lab for Physical Environment: Patterns and Systems 1 cr.
GEOG 120 Human Geography 3 cr.
GEOG 240 United States 3 cr.
GEOG 241 Wisconsin 3 cr.
GEOG 250 Introduction to Cartography and GIS 3 cr.
General Electives: 6 cr. hrs.
(Courses numbered 200 and above)

Geographic Information Systems/Cartography Minor

GIS/Cartography Minor: 21 Total Credits
(with a Geography Major)
Required Courses: 12 cr. hrs.
GEOG 250 Introduction to Cartography and GIS 3 cr.
GEOG 255 Thematic Map Design 3 cr.
GEOG 360 GIS: Theory and Methods 3 cr.
GEOG 368 Geoprocessing Techniques 3 cr.
Directed Electives: 9 cr. hrs.
GROUP A: Choose 6 or 9 credits from the following:
GEOG 450 Advanced Map Design and Production 3 cr.
GEOG 460 Advanced GIS 3 cr.
GEOG 379 Geography Internship 3-12 cr.
GROUP B: If 6 credits were chosen from Group A, then choose 3 credits from the following:
GENG 235 Surveying 3 cr.
ESM 333 Remote Sensing of Natural Resources 3 cr.
ESM 363 GIS Applications in Resource Management 3 cr.
ART 225 Advertising Design I 3 cr.
CSIS 151 Introduction to Programming 3 cr.
CSIS 161 Programming I 3 cr.
CSIS 225 Web Development I 3 cr.

GIS/Cartography Minor 21 Total Credits
(without a Geography Major)
Required Courses: 12 cr. hrs.
(See Cartography Minor with a Geography Major)
Directed Electives: 9 cr. hrs.
GROUP A: (See Cartography Minor with a Geography Major Group A)
GROUP B: If 6 credits were chosen from Group A, then choose 3 credits from the following:
GEOG 365 Quantitative Techniques for Geographers 3 cr.
GENG 235 Surveying 3 cr.
ESM 333 Remote Sensing of Natural Resources 3 cr.
ESM 363 GIS Applications in Resource Management 3 cr.
ART 225 Advertising Design I 3 cr.
CSIS 151 Introduction to Programming 3 cr.
CSIS 161 Programming I 3 cr.
CSIS 225 Web Development I 3 cr.
Geology (GEOL)
Department of Plant and Earth Science
College of Agriculture, Food and Environmental Sciences

324 Agriculture Science Hall
(715) 425-3345
www.uwrf.edu/pes/


General Education Requirements

For College of Agriculture, Food and Environmental Science majors as listed on pages 18-19 with the following exceptions:
Sciences: BIOL 150, GEOL 101, and CHEM 121.
For Secondary Education Majors as listed on pages 31-32.

Geology Major

Required Geology Courses: 37-38 cr. hrs.
GEOL 102 Introductory Geology Lab 1 cr.
GEOL 150 Historical Geology 4 cr.
GEOL 230 Mineralogy 4 cr.
GEOL 231 Petrology 4 cr.
GEOL 285 Sophomore Seminar in Geology (writing intensive) 1 cr.
GEOL 326 Structural Geology 4 cr.
GEOL 327 Geomorphology and Glacial Geology (writing intensive) 4 cr.
GEOL 362 Stratigraphy and Sedimentation 4 cr.
GEOL 371-376 Any one of the Field Geology Courses 1-2 cr.
GEOL 441 Geophysics 4 cr.
GEOL 450 Paleontology (writing intensive) 4 cr.
GEOL 485 Senior Research Experience (writing intensive) 1 cr.

Required Professional Courses: 19 cr. hrs.
CHEM 122 General Chemistry II 5 cr.
MATH 166 Calculus I 4 cr.
Choose either sequence A or B below:
A. PHYS 151 General Physics I 4 cr.
PHYS 152 General Physics II 4 cr.
PHYS 156 General Physics Laboratory I 1 cr.
PHYS 157 General Physics Laboratory II 1 cr.
B. PHYS 101 General Physics Laboratory I 1 cr.
PHYS 102 General Physics Laboratory II 1 cr.
PHYS 161 General Physics I 4 cr.
PHYS 162 General Physics II 4 cr.

Directed Electives: 20 cr. hrs.
(consult with your adviser for these or other selections)
CROP 451 Integrated Pest Management 3 cr.
CROP 462 Agricultural Ecology 2 cr.
ART 307 Computer Graphics as Visual Expression 3 cr.
BIOL Any 210 level or higher
CHEM Any 230 level or higher
CSIS Any computer systems course
ENGL 367 Technical Writing 3 cr.
ESM Any ESM course 150 or higher, except 300, and 343
GENG Any general engineering course
GEOG 250 Cartography I 3 cr.
GEOG 255 Cartography II 3 cr.
GEOG 360 Introduction to Geographic Information Systems 3 cr.
GEOG 365 Quantitative Techniques for Geographers 3 cr.
GEOG 368 Geoprocessing Techniques 3 cr.
GEOG 412 Advanced Climatology 3 cr.
GEOG 450 Advanced Map Design and Production 3 cr.
GEOG 460 Advanced Geographic Information Systems 3 cr.
GEOL 270 Internship I 2-4 cr.
GEOL 370 Internship II 2-4 cr.
GEOL 417 Hazardous Waste Operations and Emergency Response 2 cr.
GEOL 445 Hydrogeology 3 cr.
GEOL 490 Independent Study in Geology 1-3 cr.
MATH Any math class 167 or higher
PHYS Any physics class 204 or higher
SOIL 210 Introductory Soil Science 3 cr.
SOIL 325 Hydric Soils and Wetland Environments 3 cr.
SOIL 350 Pedology 4 cr.
SOIL 440 Soil and Water Conservation 4 cr.
SOIL 460 Soil Physics 3 cr.

Note: All geology majors must also complete a service learning/professional development requirement. See your adviser for details.

Emphases

An emphasis is not a minor but is a suggested series of courses taken as directed electives that fit together well, fit well with the geology major and that would help a career in the designated area. Consult with geology faculty for more information.

Environmental/Engineering: GENG 235, 236, 265, SOIL 460, MATH 167
Environmental/Hydrogeology: See Hydrogeology Minor
Graduate School: MATH 167, ENGL 367, CSIS 105, Field Geology, GEOL 490
Mineral Exploration: ESM 333, GEOG 250, 360, CHEM 251, 256, Field Geology, GEOL 490
Ocean Sciences: CSIS 105, BIOL 230, 434, MATH 167, CHEM 251, 256, PHYS 311, GEOL 202
Paleontology: MATH 167, CSIS 105, Field Geology, BIOL 230, GEOL 490, Additional courses in Biology
Petroleum Geology: GEOL 445, Field Geol., BIOL 324, 355, CHEM 231, 232, GENG 236, 368, GEOL 490

Earth Science Certification Option - Secondary Education

This sequence of courses will provide Teacher Certification in Earth Science in grades 6-12. The following courses are required. MATH 146 should be taken. Consult with Geology faculty for changes.

Professional Courses 36-39 cr. hrs.
TED 120 Introduction to Education and Instructional Technology 3 cr.
TED 212 Educational Psychology: Middle and Secondary Education 5 cr.
TED 414 Development of the Transescent (writing intensive) 3 cr.
TED 420 School and Society 3 cr.
TED 422 Content Area Literacy in Middle and Secondary Schools 3 cr.
TED 423 Writing, Speaking and Listening in the Content Area 3 cr.
TED 434 Techniques of Middle/Secondary Education: Science 3 cr.
TED 473 Student Teaching: Middle Level 1-6 cr.
TED 474 Student Teaching: Secondary 1-12 cr.
PSYC 330 The Exceptional Child 3 cr.
COUN 310 Counseling Skills for Teachers 2 cr.
or COUN 410 Introduction to Counseling or 3 cr.

**Earth Science Courses 42 cr. hrs.**
GEOL 102 Introductory Geology Lab 1 cr.
GEOL 150 Historical Geology 4 cr.
GEOL 202 Oceanography 2 cr.
GEOL 230 Mineralogy 4 cr.
GEOL 327 Geomorphology and Glacial Geology (writing intensive) 4 cr.
GEOL 305 Geology of the Planets 2 cr.
GEOL 330 Meteorology 2 cr.
GEOL 450 Paleontology (writing intensive) 4 cr.
CHEM 121 General Chemistry I 5 cr.
or CHEM 110 Introduction to General Chemistry 6 cr.
PHYS 117 Introductory Astronomy 3 cr.
PHYS 151 General Physics I 4 cr.
PHYS 156 General Physics Laboratory I 1 cr.
BIOL 150 General Biology 3 cr.
ESM 360 Applied Hydrology and Water Quality 4 cr.

**Geology Minor**

**Geology Minor: 21 Total Credits**

**Required Courses 13 cr. hrs.**
GEOL 102 Introductory Geology Lab 1 cr.
GEOL 150 Historical Geology 4 cr.
GEOL 230 Mineralogy 4 cr.
GEOL 231 Petrology 4 cr.

**Electives in Geology 8 cr. hrs.**
Select from 300 or 400 level Geology courses except GEOL 330

See also: [Earth Science Minor](#) and [Hydrogeology Minor](#)
Health and Human Performance
Department of Health and Human Performance
College of Education and Professional Studies

111 Karges Center
(715) 425-3705
www.uwrf.edu/hhp/

Chair–Faye Perkins, Debra Allyn, Jenn Berna, Richard Bowen, Martha Brennan, Kevin Bullis, Dean Culpepper, Gary Eloranta, Patti Ford, Steve Freeman, Bill Henderson, Cindy Hovet, Crystal Lanning, John O'Grady, Robert Ritzer, Jim Tangen-Foster, Sue Tarr, Karla Zhe

The mission of the department of health and human performance is to provide leadership and education for a diverse student body in the areas of health, physical education, recreation, dance, and athletics. The department is committed to promoting physical activity and healthy lifestyles throughout the lifespan, whether it be through providing opportunities for exceptional performance in athletics; for a holistic teaching approach in our physical education, health, dance, outdoor education and coaching curricula; for creative expression in dance theatre; or for recreational and leisure opportunities through activity courses and the life fitness program.

The health and human performance major provides students with three options:

Option I: Comprehensive K-12 Physical Education (teacher certification; no minor required)
Option II: Health and Human Performance Studies (non-certifiable option; minor required)
Option III: Health Education (teacher certification; minor required)

Students from all disciplines are encouraged to enjoy the opportunities provided through minors in health education, coaching, dance education, or outdoor education.

General Education Requirements

As listed on pages 31-32.

Health and Human Performance Major

Option I: Comprehensive K-12 Physical Education 53 Total Credits
(teacher certifiable)
DANC 120 Fundamentals of Movement Through Dance 1 cr.
DANC 257 Rhythms 2 cr.
DANC 362 Dance for the Elementary School 2 cr.
HEAL 263 Human Anatomy 3 cr.
HEAL 366 Exercise Physiology 3 cr.
P ED 161 Intro. to Health and Human Performance 3 cr.
P ED 196 Individual Sports 2 cr.
P ED 198 Team Sports 2 cr.
P ED 201 Outdoor Education Concepts and Skills-Summer Activities 3 cr.
P ED 241 Motor Learning 3 cr.
P ED 245 Motor Development throughout Life 3 cr.
P ED 251 Field Sports 2 cr.
P ED 252 Racquet Sports 2 cr.
P ED 253 Lifetime Sports 2 cr.
P ED 300 Adapted Physical Education 3 cr.
P ED 354 Biomechanics 3 cr.
P ED 375 Physical Activity Behavior 3 cr.
P ED 455 Organization and Administration of Physical Education 3 cr.
P ED 461 Senior Seminar 3 cr.
P ED 465 Scientific Principles of Conditioning 2 cr.
P ED 466 Exercise Leader 1 cr.
SFED 200 First Aid and Basic Life Support 2 cr.

**Professional Courses: 35 cr. hrs.**
TED 120 Introduction to Education and Instructional Technology 3 cr.
TED 211 or 212 Educational Psychology Elem. or Secondary 5 cr.
TED 420 School and Society 3 cr.
TED 422 Content Area Literacy in Middle/Secondary School 3 cr.
TED 425 Techniques of Elementary ED-PE 3 cr.
TED 435 Techniques of Middle/Secondary Education: Physical Ed. 3 cr.
TED 475 Student Teaching: K-12 12 cr.
PSYC 330 The Exceptional Child 3 cr.

**Option II: Health and Human Performance Studies 34 Total Credits**
Minor required (non-certifiable)

**Requirements: 32 cr. hrs.**
HEAL 263 Human Anatomy 3 cr.
HEAL 315 Nutrition 3 cr.
HEAL 366 Exercise Physiology 3 cr.
P ED 161 Intro to Health and Human Performance 3 cr.
P ED 245 Motor Development throughout Life 3 cr.
P ED 354 Biomechanics 3 cr.
P ED 375 Physical Activity Behavior 3 cr.
P ED 450 Sport, Fitness and Recreation Management 3 cr.
P ED 461 Senior Seminar in Health and Human Performance 3 cr.
P ED 465 Scientific Principles of Conditioning 2 cr.
P ED 466 Exercise Leader 1cr.
SFED 200 First Aid and Basic Life Support 2 cr.

**Directed Electives: (Select 2 or more credits)**
HEAL 269 Wellness 3 cr.
P ED 109 Recreational Climbing 1 cr.
P ED 196 Individual Sports 2 cr.
P ED 198 Team Sports 2 cr.
P ED 201 Outdoor Ed. Concepts: Summer 3 cr.
P ED 213 Care and Prevention of Athletic Injury 2 cr.
P ED 251 Field Sports 2 cr.
P ED 252 Racquet Sports 2 cr.
P ED 253 Lifetime Sports 2 cr.
P ED 301 Foundations of Outdoor Leadership 3 cr.
P ED 351 Coaching Young Athletes 2 cr.
P ED 363 Psychology of Coaching 3 cr.
SO CI 230 Sociology of Sport and Leisure 3 cr.

**Professional courses 14 cr. hrs.**
P ED 271 Practicum I 1 cr.
P ED 300 Adapted Physical Education 3 cr.
P ED 471 PE Practicum 4–12 cr.
PSYC 236 Developmental Psychology: Childhood and Adolescence 3 cr.
PSYC 336 Developmental Psychology: Adulthood and Aging 3 cr.

**Option III: Health Education  68 Total Credits**
Minor required (teacher certification)

**Requirements: 34 cr. hrs.**
P ED 161 Introduction to Health and Human Performance 3 cr.
SFED 200 First Aid and Basic Life Support 2 cr.
SFED 330 Safety in Home, School and Community: Promotion and Planning 2 cr.
SOWK 250 Use, Abuse, and Addiction 3 cr.
HEAL 263 Human Anatomy 3 cr.
HEAL 269 Wellness 3 cr.
HEAL 315 Nutrition 3 cr.
HEAL 350 Community Health 3 cr.
HEAL 366 Exercise Physiology 3 cr.
HEAL 460 Teaching of Family Life and Sexuality Education 3 cr.
HEAL 465 Comprehensive School Health Education Programs 3 cr.
P ED 461 Senior Seminar 3 cr.

**Required Supporting Course: 3 cr. hrs.**
GEOG 300 Environmental Education 3 cr.
or ESM 300 Environmental Education

**Professional Education Requirements: 35 cr. hrs.**
PSYC 330 Exceptional Child 3 cr.
TED 120 Education & Technology 3 cr.
TED 212 Educational Psychology: Middle and Secondary Education 5 cr.
TED 420 School and Society 3 cr.
TED 422 Content Area Literacy in Middle/Secondary School 3 cr.
TED 423 Writing, Speaking and Listening in the Content Area 3 cr.
TED 429 Techniques of Secondary Education: Health Education 3 cr.
TED 473 Student Teaching: Middle Level 6 cr.
TED 474 Student Teaching: Secondary 6 cr.

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**Health Education Minor**

**Health Education Minor: 23 Total Credits**

**Required Courses: 23 cr. hrs.**
HEAL 262 Human Anatomy and Physiology 3 cr.
(or HEAL 263 & 366)
HEAL 269 Wellness 3 cr.
HEAL 315 Nutrition 3 cr.
HEAL 350 Community Health 3 cr.
HEAL 460 Teaching of Family Life and Sexuality Education 3 cr.
HEAL 465 Comprehensive School Health Education 3 cr.
SFED 200 First Aid and Basic Life 2 cr.
SOWK 250 Use, Abuse and Addiction 3 cr.

**Required supporting course**
Choose one of the following:
GEOG 300 Environmental Education 3 cr.
or ESM 300 Environmental Education

**Other professional courses and student teaching required for certification:**
TED 414 Development of the Transescent 3 cr.
Required for Minnesota licensure
TED 429 Techniques of Secondary Education: Health Education 3 cr.
TED 473/474 Student Teaching 12 cr.
History (HIST)
Department of History and Philosophy
College of Arts and Sciences

307 Kleinpell Fine Arts Building
(715) 425-3164
www.uwrf.edu/history

History: John Buschen–Chair, Betty Bergland, Kurt Leichtle, Edward Peterson, David Riggs, Zhiguo Yang
Philosophy: Imtiaz Moosa and David Peters

The Department of History and Philosophy offers courses and degrees for those who wish to obtain a liberal arts degree which teaches how to read, think, and write effectively. Thus, a liberal arts degree is the best preparation for careers in business, advertising, government, foreign service, international relations, publications, journalism, and human services. It also is indicated for those who wish to pursue a career specifically in the field of history including teaching at the elementary, secondary, or college level, or working in museums, archives and libraries. Students take courses in a variety of periods, areas and topics. Majors are encouraged to participate in an internship program for practical preparation for a career. Various options are also offered for study in other countries of the world as part of the degree. Majors are strongly urged to take a course in Women’s Studies to truly round off their understanding of the human past. The Broad Field Social Studies Major is recommended for secondary teachers in Wisconsin and Minnesota.

General Education Requirements

BA and BS Liberal Arts majors as listed on pages 22-23.
BS Education majors as listed on pages 31-32.

History Major–Liberal Arts

Major in History–Liberal Arts 36 Total Credits
Major Requirements 15 cr. hrs.
HIST 101 Origins of Civilization 3
HIST 102 Origins of One World 3
HIST 103 U.S. History to 1877 3
HIST 104 U.S. History Since 1865 3
HIST 485 History Seminar (writing intensive) 3
Required Courses:
Select one of the following Non-Western History courses: 3 cr. hrs.
HIST 201 Introduction to Asian Civilization 3
HIST 202 Introduction to Latin American Civilizations 3
HIST 206 Native Americans and the United States 3
Directed Electives: 18 cr. hrs.
Select two advanced U.S. History courses (numbered 300 or above) 6
Select two advanced non-U.S. History courses (numbered 300 or above) 6
Courses numbered 200 or above 3
Courses numbered 300 or above 3

History Minor–Liberal Arts and Education
Minor Requirements 24 Total Credits

Required Courses: 12 cr. hrs.
HIST 101 Origins of Civilization 3
HIST 102 Origins of One World 3
HIST 103 U.S. History to 1877 3
HIST 104 U.S. History Since 1865 3

Directed Electives: 12 cr. hrs.
Select four HIST courses numbered 200 or above
The UW-River Falls Honors Program is designed to meet the educational needs of students who have an outstanding record of academic achievement and a true sense of intellectual adventure. It allows students to experience a variety of course types and educationally related experiences while gaining academic credit. Students enrolled in the program may choose Honors sections of many general education classes, take introductory and advanced Honors seminars, participate in Honors colloquia, complete an Honors thesis/project, enroll in a service-learning experience for credit and receive credits for participation in the intellectual and creative life of the UW-RF community and elsewhere. All of these experiences are gained while still keeping within the major and minor requirements of an Honors student’s academic program.

Honors Admission Requirements

Incoming freshmen must have a composite ACT score of 27 or higher and/or have graduated in the top 10% of their high school class.

Sophomores, juniors, or seniors may enroll if their cumulative grade point average is 3.3 or higher.

Students must maintain a 3.3 cumulative grade point average and complete at least two Honors program credits per year to remain in the program.

The UW-RF Honors program consists of 18 Honors program credits, all of which are possible to accumulate within the 120 minimum credits necessary to graduate.

Requirements for completing the Honors Program include at least 18 honors program credits and no history of academic dishonesty.

General Education Honors Courses

Honors program seminars, colloquia, and courses will meet General Education or Liberal Arts requirements whenever applicable.

Sections of the following courses may be made available on a rotational basis to Honors Program students:

Fine Arts
ART 100, MUS 100, SCTA 105

Social Science
ANTH 100, ECON 100, ESM 105, POLS114, SOCI 100

Science
BIOL 100, CHEM 121 (discussion groups and/or labs),
GEO 101, PHYS 117, 151, 161
(discussion groups and/or labs)

Diversity
TED 252-Foundations of Multicultural Education
Honors Requirements

Honors Requirements 18 Total Credits
Required Courses: 2-7 cr. hrs.
HON 181 Honors Seminar I 1
HON 498 Honors Thesis/Project 1-6
Directed Electives: 11 cr. hrs.
Honors Courses
ENG 112H Persuasive Reading and Writing 3
HUM 255 Arts and Ideas I 4
HUM 256 Arts and Ideas II 4

Seminar, Colloquia, and Contracted Credits 1-5 cr. hrs.
(variable credits)
Honors Program students enrolled in a non-honors course may contract with the instructor to earn honors credit(s) for different work (i.e. in greater depth). These credits will be recorded as honors credits.

Colloquia 0-2 cr. hrs.
Colloquia are optional and repeatable. They are offered in various subject areas and may be supplements to existing courses or sequences, e.g., HON 166 and 167 might be offered by the mathematics department as supplements to MATH 166 and 167.

Honors Thesis/Project 1-6 cr. hrs.
Required of all participants during junior or senior year. Participants must submit a project proposal outlining their research hypotheses, methodologies, and expected outcomes, and suggest appropriate faculty reviewers to the Honors Director for approval before commencing their work. Each project will be evaluated by three faculty chosen by the student and approved by the Honors Director. Projects may be graded pass/fail at the student’s request. Projects undertaken for departmental senior seminars may be accepted as honors theses/projects at the discretion of the department and the Honors Director.

Service Learning Component 1-6 cr. hrs.
Service learning in this context means unpaid volunteer work that will benefit the community and provide a significant learning experience. Service learning is based on the rationale that learning occurs through reflection on the service. At least one credit of service learning is required; one credit equals 45 hours of service learning. Service learning hours must be documented as to the amount of time contributed and the learning component completed. Participants must submit a proposal for service learning project(s) to the Honors Director for their approval prior to the service learning activity. These proposals will describe the service learning activity, outline its connection to the student’s course work, and include the signature of the student’s proposed field supervisor. Service learning hours may be planned and carried out individually, through the Honors Club, or with another organization. Honors program students are encouraged to arrange service learning activities through other organizations they belong to in order to stimulate participation by other university community members.

Events 0-2 cr. hrs.
This component is meant to encourage Honors Program participants to engage in the intellectual and creative life of the UW-River Falls community and elsewhere. Approved events will include attendance or participation in professional meetings, lectures, concerts, plays, and art exhibits. Participants must submit an event proposal to the Director prior to the events describing the events to be attended and, wherever possible, drawing connections between them and the participant’s course of study. Five events (12 hours minimum) equal one credit. Participants must provide a portfolio of short reaction papers to each event and appropriate evidence of participation in order to earn credit.
Horticulture (HORT)
Department of Plant and Earth Science
College of Agriculture, Food and Environmental Sciences

324 Agriculture Science Hall
(715) 425-3345
www.uwrf.edu/pes/


General Education Requirements

As listed on pages 18-19.

Foundation Courses in Agriculture 12 cr. hrs.
CROP 161 Introduction to Plant Science 3 cr.
or HORT 161 Introduction to Plant Science
AGEN 150 Agricultural and Environmental Engineering Technology 3 cr.
SOIL 210 Introductory Soil Science 3 cr.
AGEC230 Agricultural Economics I 3 cr.
or FDSC 112 Introduction to Food Science

Horticulture Major

Horticulture Major: 62-68 Total Credits
Required Core HORT Courses: 16 cr. hrs.
HORT 169 Introduction to Horticulture 3 cr.
HORT 200 Plant Propagation 3 cr.
HORT 310 Greenhouse Management 3 cr.
HORT 352 Ornamental Plants 3 cr.
HORT 455 Turfgrass Science and Management 3 cr.
HORT 485 Senior Seminar in Horticulture 1 cr.

Required Related Courses: 20 cr. hrs.
SOIL 311 Soil Fertility 4 cr.
BIOL 314 Plant Pathology 3 cr.
CHEM 230 General Organic Chemistry 3 cr.
AGBI 251 Agricultural Biochemistry 3 cr.
CROP 435 Crop Physiology 4 cr.
CROP 257 Genetics 3 cr.
or ANSC 257 Genetics

Horticulture Options (Choose one)
Professional Horticulture Option 26-31 cr. hrs.
BIOL 333 Entomology 3 cr.
HORT 327 Vegetable Science and Production (writing intensive) 4 cr.
HORT 347 Fruit Science and Production (writing intensive) 4 cr.
HORT 420 Floriculture (writing intensive) 4 cr.
HORT 270/370 Horticulture Internship 4 cr.
Select one design-related course from the following:
HORT 245 Interior Plantscapes 3 cr.
or HORT 250 Principles of Landscape Design
or HORT 268 Herbaceous Perennials

Select one plant production-related course from the following:
HORT 369 Plant Tissue Culture: Theory and Practice 3 cr.
or HORT 452 Arboriculture/Nursery Management (writing intensive)
or AGEC 361 Horticulture Business Management

General Electives: 1-6 cr. hrs.

Landscape Design and Contracting Option 29-32 cr. hrs.
AGEN 333 Landscape Construction 3 cr.
ESM 151 Introduction to Land Use Theory and Practice 3 cr.
HORT 250 Principles of Landscape Design 3 cr.
HORT 268 Herbaceous Perennials 3 cr.
HORT 270/370 Horticulture Internship 4 cr.
HORT 452 Arboriculture/Nursery Management (writing intensive) 3 cr.
AGEC 361 Horticulture Business Management 3 cr.
or AGEC 368 Professional Selling
GENG 368 CAD Applications 3 cr.
HORT 327 Vegetable Science and Production (writing intensive) 4 cr.
or HORT 347 Fruit Science and Production (writing intensive)

General Electives: 0-3 cr. hrs.

Business Emphasis

The Business Emphasis is a suggested series of courses that fit together well and complement the horticulture major. It is not necessary to take all of the courses. The courses are taken in addition to either of the two options. The emphasis designation is not printed on the student’s transcript.
AGEC 361 Horticulture Business Management 3 cr.

Select one from:
ACCT 231 Principles of Accounting I 3 cr.
AGEC 305 Agricultural Business Accounting 3 cr.

Select one from:
BLAW 265 Business Law I 3 cr.
AGEC 345 Agricultural Law 3 cr.

Select two from:
AGEC 355 Agricultural Markets and Prices 3 cr.
AGEC 368 Professional Selling 3 cr.
AGEC 468 Agribusiness Firm Management 3 cr.
CSIS 215 Information Systems for Management 3 cr.
MNGT 330 Diversity in the Workplace 3 cr.
FINC 345 Managerial Finance 3 cr.

Horticulture Minor

Horticulture Minor: 22-23 Total Credits

Required Courses: 19 cr. hrs.
HORT 169 Introduction to Horticulture 3 cr.
HORT 200 Plant Propagation 3 cr.
HORT 310 Greenhouse Management 3 cr.
HORT 352 Ornamental Plants 3 cr.
BIOL 314 Plant Pathology 3 cr.

Select one from:
HORT 327 Vegetable Science and Production 4 cr.
HORT 347 Fruit Science and Production 4 cr.
**Directed electives: 3-4 cr. hrs.**
(any HORT course, consult with horticulture faculty)
Hydrogeology
Department of Plant and Earth Science
College of Agriculture, Food and Environmental Sciences

324 Agriculture Science Hall
(715) 425-3345
www.uwrf.edu/pes/


Hydrogeology Minor

Hydrogeology Minor: 21 Total Credits

Required Courses 17 cr. hrs.
ESM 360 Applied Hydrology and Water Quality 4 cr.
ESM 412 Fate and Transport of Chemicals on the Environment 3 cr.
ESM 413 Environmental Analysis 4 cr.
GEOL 445 Hydrogeology 3 cr.
SOIL 460 Soil Physics 3 cr.

Electives-Select from the following: 4 cr. hrs.
CHEM 230 General Organic Chemistry 3 cr.
CHEM 251 Analytical Chemistry 2 cr.
CHEM 256 Analytical Chemistry Lab 1 cr.
CHEM 356 Chemical Instrumentation Lab (writing intensive) 1 cr.
CHEM 452 Instrumental Analysis 3 cr.
BIOL 324 Microbiology 4 cr.
GEOL 327 Geomorphology and Glacial Geology (writing intensive) 4 cr.
GEOL 362 Stratigraphy and Sedimentation 4 cr.
GEOL 441 Geophysics 4 cr.
International Studies (INTS)  
Interdisciplinary Program

(715) 425-3318/3798  
www.uwrf.edu/international_studies

International Studies Program Advisory Committee:  
Chair - Wes Chapin, political science; Cecilia Bustamante, modern language; Clair Kilian, business administration; Charles Rader, geography; Ogden Rogers, social work; David Trechter, agricultural economics

The primary mission of the International Studies Program is to create global awareness by providing students with the intellectual skills and substantive knowledge necessary to meet the global challenges of the 21st Century.

The International Studies Program is designed to:

- Provide students with the knowledge and skills they need to compete in the global community,
- Promote critical thinking and problem solving from an interdisciplinary perspective,
- Introduce students to a foreign language and encourage the development of competency,
- Increase global awareness and understanding of cultural differences,
- Encourage students to participate in study-abroad and overseas experience programs, and more . . .

General Education Requirements

Students may complete a first major in international studies within the Colleges of Agriculture, Food and Environmental Sciences; Arts and Sciences; and Education and Professional Studies. Students in the College of Business and Economics can complete the major as a second major. Students in all colleges can complete an international studies minor. Students must complete the appropriate BA or BS Liberal Arts requirements for their respective colleges.

International Studies Major: 36 Total Credits

Required Courses: 21 cr. Hrs.
INTS 200 Introduction to International Studies 3 cr.
AGEC 250 World Food and Population 3 cr.
ECON 150 International Economic Issues 3 cr.
GEOG 120 Human Geography 3 cr.
HIST 102 Origins of One World 3 cr.
POLS 260 Introduction to International Relations 3 cr.
INTS 480 Senior Seminar 3 cr.

Students must complete a study-abroad experience as part of the directed electives.

Directed Electives: 15 cr. hrs.
Select 15 credits from at least three of the seven categories A-G listed below.
No more than 9 credits can come from any one of categories A-F.
No more than 3 credits can come from category G.
One course must be selected from category F.
Credit for INTS 379, 389, 490, or 499 can be applied to these categories after consultation with the chair.

Supporting Course Requirement:
Students complete two years of a foreign language of their choice; e.g., complete any two-year language at UW-RF, complete testouts equivalent to two years, or complete two years at another accredited university and transfer the credits to UW-RF.
International Studies Minor: 24 Total Credits

**Required Courses: 21 cr. hrs.**
INTS 200 Introduction to International Studies 3 cr.
AGEC 250 World Food and Population 3 cr.
GEOG 120 Human Geography 3 cr.
POLS 260 Introduction to International Relations 3 cr.

**Directed Electives: 12 cr. hrs.**
Select 12 credits from at least three of the seven categories A-G.
No more than 6 credits can come from any of categories A-F.
No more than 3 credits can come from category G.

Credit for INTS 379, 389, 490, or 499 can be applied to these categories after consultation with the chair.

**Supporting Course Requirement:**
Students complete one year of a foreign language of their choice; e.g., complete any one-year language at UW-RF, complete testouts equivalent to one year, or complete one year at another accredited university and transfer the credits to UW-RF.

**Category A**
ART 314 Art of India, China, and Japan 2 cr.
ART 318 Latin American Art 2 cr.
ENGL 341 European Literature 3 cr.
ENGL 428 Modern British Literature: 1940-Present 3 cr.
ENGL 441 Twentieth Century International Literature 3 cr.
ENGL/FILM/INTS 442 World Cinema 3 cr.
HUM 256 Arts and Ideas II 4 cr.
HUM 261 World Arts 1 cr.
MUS 300 World Music 3 cr.
SCTA 313 Intercultural Communication 3 cr.

**Category B**
HIST 303 Women’s History: Europe 3 cr.
HIST 305 Women’s History: Global Perspectives 3 cr.
HIST/PHIL/POLS 308 Western Political Thought: The Renaissance through Marx 3 cr.
HIST/PHIL/POLS 309 Western Political Thought: Nietzsche to the Present 3 cr.
HIST 327 World War I to World War II 3 cr.
HIST 328 World War II to the Cold War 3 cr.
HIST 330 Revolutions in Modern History 3 cr.
HIST 334 Modern China, 1800 to the Present 3 cr.
HIST 335 Modern Japan, 1600 to the Present 3 cr.
HIST/POLS 349 Modern Middle East History and Politics 3 cr.
HIST 359 U.S. History from 1945 3 cr.
HIST/POLS 367 History of U.S. Foreign Policy 3 cr.
HIST 436 History of Colonialism and Imperialism 3 cr.
POLS 344 Politics of the Developing World 3 cr.
POLS 346 Politics of Western Europe 3 cr.
POLS 348 Politics of East Asia 3 cr.
POLS 364 International War and Peace 3 cr.
POLS 365 American Foreign Policy 3 cr.
POLS 369 Politics of the World Economy 3 cr.
POL 377 The United Nations (may be taken three times) 1 cr.

**Category C**
- ANTH/SOCI 211 Sociology of Childhood 3 cr.
- ANTH/SOCI 221 Global Perspectives on Women 3 cr.
- ANTH/SOCI 338 Global Perspectives on Health and Disease 3 cr.
- ANTH/SOCI 348 Faces of Culture 3 cr.
- ANTH/SOCI 435 Social and Cultural Change 3 cr.
- GEOG 220 Economic Geography 3 cr.
- GEOG 242 Canada 3 cr.
- GEOG 340 Europe 3 cr.
- GEOG 342 Latin America 3 cr.
- GEOG 343 Africa 3 cr.
- GEOG 344 Asia and Oceania 3 cr.
- SOCI 340 Sociology of Rural Life 3 cr.

**Category D**
- AGEC 441 Agricultural Policy II 3 cr.
- ECON 328 Domestic Topics in Third World Economic Development 3 cr.
- ECON 329 International Topics in Third World Economic Development 3 cr.
- ECON 340 Contemporary International Trade Issues 3 cr.
- ECON 342 International Finance 3 cr.
- ECON 344 Comparative Economic Systems 3 cr.
- MNGT 355 International Business 3 cr.
- MKTG 355 International Marketing 3 cr.
- JOUR 460 International Communication 3 cr.
- MNGT 310 Culture and Business 3 cr.
- MNGT 355 International Business 3 cr.
- MNGT 380 International Business Seminar 3 cr.

**Category E**
- FREN 301 French Conversation and Composition 3 cr.
- FREN 302 French Conversation and Composition II 3 cr.
- FREN 341 French Civilization 3 cr.
- FREN 342 Modern France and Francophone Cultures 3 cr.
- FREN 351 Survey of French Literature to 1800 3 cr.
- FREN 352 Survey of French Literature 1800 to Present 3 cr.
- FREN 401 Advanced French Communication 3 cr.
- FREN 451 French Prose Fiction 3 cr.
  or FREN 452 French Poetry
  or FREN 453 French Drama
- GERM 275 Business German 3 cr.
- GERM 301 German Conversation and Composition 3 cr.
- GERM 302 German Conversation and Composition II 3 cr.
- GERM 341 German Civilization 3 cr.
- GERM 342 Modern German-Speaking Cultures 3 cr.
- GERM 351 Survey of German Literature to Classicism (1800) 3 cr.
- GERM 352 Survey of German Literature from Classicism (1800) to Present 3 cr.
- GERM 401 Advanced German Communication 3 cr.
- GERM 451 German Drama and Theater 3 cr.
  or GERM 452 German Tale, Short Story, and Novella
  or GERM 453 German Poetry
- SPAN 301 Spanish Composition and Conversation 3 cr.
- SPAN 302 Spanish Composition and Conversation II 3 cr.
SPAN 341 Spanish Civilization to 1800 3 cr.
SPAN 342 Spanish Civilization 1800 to Present 3 cr.
SPAN 345 Latin American Civilization to 1800 3 cr.
SPAN 346 Latin American Civilization 1800 to Present 3 cr.
SPAN 351 Survey of Spanish Literature Siglo De Oro 3 cr.
SPAN 352 Survey of Spanish Literature 1898 to Present 3 cr.
SPAN 355 Survey of Latin American Literature, Conquest to Independence 3 cr.
SPAN 356 Survey of Latin American Literature Independence to Present 3 cr.
SPAN 401 Advanced Spanish Communication 3 cr.
SPAN 452 Advanced Spanish Literature 3 cr.
SPAN 455 Advanced Latin American Literature 3 cr.

Category F
ART/ENGL 376 Experience Greece: Culture Past and Present 1-3 cr.
HIST 371 Study Tour Research 1-3 cr.
INTS 370 International Study Tour 1-3 cr.
INTS 377 Semester Abroad 6 cr.
MODL 376 Mexico: A Cultural Experience 3 cr.
MODL 377 Foreign Study 6 cr.
271 CAFES depts. International Internship 4 cr.
TED Education Teaching courses Overseas Practice Teaching 6 cr.
378 within depts. Semester Abroad Research 3-6 cr.

Category G
ANTH 100 Introduction to Anthropology 3 cr.
DANC 100 History/Appreciation of Dance 3 cr.
ECON 150 International Economic Issues 3 cr. (course required for major, allowed as an elective in minor)
ESM 105 Introduction to Environmental Studies 3 cr.
GEOG 212 Weather and Climate 3 cr.
GEOG 214 World Patterns of Plants and Animals 3 cr.
GEOL 202 Oceanography 2 cr.
GEOL 269 Environmental Geology 2 cr.
HIST 102 Origins of One World 3 cr. (course required for major, allowed as an elective in minor)
HIST 201 Introduction to Asian Civilization 3 cr.
HIST 202 Introduction to Latin American Civilizations 3 cr.
POLS 245 Introduction to Comparative Politics 3 cr.
Journalism (JOUR)
Department of Journalism
College of Arts and Sciences

310 North Hall
(715)425-3169
www.uwrf.edu/journalism/


The Department of Journalism is one of 109 programs in the United States accredited by the Accrediting Council on Education in Journalism and Mass Communications. In order to maintain accreditation and to fulfill the department mission of providing journalism students with a broad liberal arts education, all majors must take a minimum of 80 credit hours outside journalism and mass communication courses, including a minimum of 65 credit hours in the liberal arts and sciences. A student majoring in journalism may not double major or minor in the Mass Communication emphasis offered in the Speech Communication and Theatre Arts department. All journalism majors must take six supporting courses outside the major, specified under the Supporting Courses category. These six courses may be counted in other areas of the student’s degree program such as General Education, Liberal Arts, a second major, a minor, or general electives.

Journalism majors must take PSYC 201 or MATH 216 to fulfill the General Education Goal 3 (mathematics requirement).

Journalism courses cannot double count in both the journalism major and general education. Students must take courses other than journalism to meet their general education goals.

Journalism and Secondary Education. Students interested in teaching journalism and/or serving as a newspaper or yearbook advisor at the secondary school level may major or minor in journalism, and must take a second teaching area major such as English or broad area studies. The student should consult with the dean of the College of Education and Professional Studies for specific teaching requirements.

Journalism and Agriculture. This program is designed for students who wish to pursue a career in agricultural journalism. The student develops a major in journalism and a second major or minor in the College of Agriculture, Food and Environmental Sciences. Students may take AGED 230 (Agricultural News Writing) as a journalism elective.

Marketing Communications Major. Journalism is one of seven academic departments participating in the interdisciplinary major of Marketing Communications.

International Studies Major. Journalism offers a directed elective (JOUR 460) that may count toward an International Studies major.

Film Studies Minor. Journalism is one of the departments from which courses may be taken for the Film Studies minor.

Professional Writing Minor. Journalism is one of the subject fields included in the Department of English Professional Writing minor.

Journalism Major 35 cr. hrs.
Core Requirements: 23 cr. hrs.
JOUR 101 Introduction to Mass Communication 3 cr.
JOUR 110 Principles of Journalism 3 cr.
JOUR 201 Information Gathering 3 cr.
JOUR 202 Print News Writing or 203 Broadcast News Writing 3 cr.
JOUR 304 News Practicum (2 semesters) 4 cr.
JOUR 465 Mass Communication Law 3 cr.
Two of the following production courses: 4 cr.
JOUR 121 Radio News Production 2 cr.
JOUR 122 TV News Photography 2 cr.
JOUR 123 Editing for Print Media 2 cr.
JOUR 124 Editing for Online Media 2 cr.

Theory Courses: Select two from the following: 6 cr.
JOUR 302 History of Documentary
JOUR 316 Media Ethics
JOUR 319 The Media and American Politics
JOUR 320 Journalism and Public Opinion
JOUR 345 History of Mass Communication
JOUR 455 Mass Media and Society
JOUR 460 International Communication

Journalism Electives: 6 cr.
Any JOUR course.

Required Supporting Courses:
POLS 253 State and Local Government or POLS 211 Government and Politics in Minnesota and Wisconsin
HIST 100 Defining Events in US History
MATH 216 Elementary Statistical Concepts or PSYCH 201 Behavioral Statistics

Plus three of the following (each from different departments):
GEOG 120 Human Geography or 220 Economic Geography
HIST any international course
INTS any course
ECON 201 Principles of Microeconomics or 202 Principles of Macroeconomics
ESM 105 Introduction to Environmental Studies or 307 Cultural Perspectives on the Environment
ETHN 200 Introduction to Ethnic Studies
PHIL 245 Eastern Religions and Islam
POLS 212 The Politics of Equality and Inequality in The United States or any international course
PSYCH 285 Psychology of Prejudice and Racism

Journalism Minor 24 cr.

Core Requirements 19 cr.
JOUR 101 Introduction to Mass Communication 3 cr.
JOUR 110 Principles of Journalism 3 cr.
JOUR 201 Information Gathering 3 cr.
JOUR 202 Print News Writing or 203 Broadcast News Writing 3 cr.
JOUR 304 News Practicum (1 semester) 2 cr.
JOUR 465 Mass Communication Law 3 cr.
One of the following production courses: 2 cr.
JOUR 121 Radio News Production 2 cr.
JOUR 122 TV News Photography 2 cr.
JOUR 123 Editing for Print Media 2 cr.
JOUR 124 Editing for Online Media 2 cr.

Theory Courses: Select one from the following: 3 cr.
JOUR 302 History of Documentary
JOUR 316 Media Ethics
JOUR 319 The Media and American Politics
JOUR 320 Journalism and Public Opinion
JOUR 345 History of Mass Communication
JOUR 455 Mass Media and Society
JOUR 460 International Communication
Journalism Electives: 2 cr.
Land Use Planning  
Department of Plant and Earth Science  
College of Agriculture, Food and Environmental Sciences

324 Agriculture Science Hall  
(715) 425-3345  
www.uwrf.edu/pes/


The land use planning major is designed for those students wishing to pursue a career in public or private planning, zoning, administration/management and sustainable development. The curriculum provides instruction in foundational planning principles and practices, as well as hands-on technical training. The course content focuses on planning issues at the rural/urban interface. It is an excellent major to combine with a wide variety of minors (e.g., cartography/GIS, business administration, political science, etc.) to develop a unique professional niche.

General Education Requirements

As listed on pages 18-19.

Land Use Planning Major

Land Use Planning Core 34-36 cr. hrs.
ESM 151 Introduction to Land Use Theory and Practice 3 cr.
ESM 220 Environmental Sustainability: Theory, Issues, and Management 3 cr.
ESM 270 Internship I 2-4 cr.
ESM 303 Environmental Policies and Administration 3 cr.
ESM 305 Environmental Impact Assessments 2 cr.
ESM 307 Multicultural Perspectives on the Environment 3 cr.
ESM 333 Remote Sensing of Natural Resources 3 cr.
ESM 363 GIS Application in Resource Management 3 cr.
ESM 411 Site Planning and Development 4 cr.
ESM 435 Advanced Land Use Planning and Design 4 cr.
ESM 485 Seminar in Resource Management 1 cr.
SOIL 210 Introductory Soil Science 3 cr.

Support Courses 15 cr. hrs.
GENG 265 Engineering Graphics 3 cr.
GEOG 250 Introduction to Cartography and GIS 3 cr.
GEOG 360 GIS: Theory and Methods 3 cr.
SCTA 208 Problem Solving in Small Group Communication 3 cr.
or SCTA 211 Public Speaking
or AGED 202 Leadership and Group Dynamics
ENGL 367 Technical Writing 3 cr.
or ENGL 266 Business Writing 3 cr.

Directed Electives: 24 cr. hrs.
AGEC 230, 231, 250, 320, 345, 355, 440, 441, 450;
AGEN 150, 240, 325, 365, 425, 443;
ANTH 205;
BIOL 310, 314, 320, 333, 344, 350, 354, 355, 360, 434, 444;
Land Use Planning Minor

Land Use Planning Minor: 23 Total Credits

Required Courses:
ESM 151 Introduction to Land Use Theory and Practice 3 cr.
ESM 303 Environmental Policies and Administration 3 cr.
ESM 333 Remote Sensing of Natural Resources 3 cr.
ESM 363 GIS Applications in Resource Management 3 cr.
ESM 411 Site Planning and Development 4 cr.
ESM 435 Advanced Land Use Planning and Design 4 cr.
GEOG 250 Introduction to Cartography and GIS 3 cr.
The Language Arts/Reading minor is one of eight recommended by the Department of Public Instruction and the College of Education and Professional Studies for Elementary Education majors who must choose a minor. They select this minor to provide breadth of understanding and skills in English (literature, language and writing), speech, and reading. Course work will support both the specific teaching of these areas and also the teaching of other subjects (i.e. reading, speaking, and writing across the curriculum). Students who choose this minor should plan their programs with Dr. Nicholas Karolides, adviser for the minor.

Language Arts/Reading Minor

Minor Requirements 24 Total Credits

Required Courses: 18 cr. hrs.
ENGL 321 English Language: History and Culture 3 cr.
ENGL 322 Acquisition of Language 3 cr.
ENGL 350 Children’s Literature: Issues and Trends 3 cr.
ENGL 361 Composition Theory 3 cr.
SCTA 223 Oral Interpretation of Literature 3 cr.
or SCTA 327 Children’s Theatre and Puppetry
TED 461 The Psychology and Pedagogy of Literacy 3 cr.

Directed Electives: 6 cr. hrs.
(select two of the following courses)
ENGL 233 Introduction to Poetry 3 cr.
ENGL 251 Advanced Composition 3 cr.
SCTA 208 Problem Solving in Small Group Communication 3 cr.
SCTA 223 Oral Interpretation of Literature 3 cr.
or SCTA 327 Children’s Theatre and Puppetry
SCTA 313 Intercultural Communication 3 cr.
SCTA 328 Creative Dramatics for Children and Special Populations 3 cr.
SCTA 407 Listening Instruction 3 cr.
TED 410 Early Child/Language Arts 3 cr.
Marketing Communications (MARC)
Interdisciplinary

310 North Hall
(715) 425-3899, FAX (715) 425-0658
www.uwrf.edu/marcomm/

Stephen Olsen-Chair, Marketing Communications; David Beard, English; Michael Padgett, art; Jacque Foust, business administration; Tamia Trulson, agricultural education; Lewis May, agricultural economics; Michael Norman, journalism; James Pratt, speech communication and theatre arts.

The interdisciplinary marketing communications major integrates the activities of advertising, public relations, sales promotion, direct marketing, personal selling and cybermarketing into a single professional field of expertise. Students will develop knowledge and skills in oral, written and visual modes of communication. In addition to an introductory course and senior seminar in marketing communications, students will take courses from as many as seven departments in three colleges. Practical experience with current technology tools and a required internship program ensure that students have not only strong academic preparation, but also practical experience in marketing communications activities.

A student may complete the major in Marketing Communications in the College of Arts and Sciences, the College of Agriculture, Food and Environmental Sciences, or in the College of Business and Economics. Please consult the dean of the respective college for college-specific course requirements. It is recommended that a student completing the major in CBE or CAFES have a minor in that college. A minor is not offered in marketing communications.

General Education Requirements

Arts and Sciences as listed on pages 22-23;
Agriculture, Food and Environmental Sciences as listed on page 18-19;
or Business and Economics as listed on pages 29-30, with the following exceptions:
Communication: SCTA 116 Business and Professional Communication
Math: Proficiency in understanding statistics is required and may be demonstrated by completing one of the following: MATH 216, PSYC 201, ECON 226, MATH 226, AGEC 320, ANSC 341, or an equivalent course. Completion of a listed statistics course may fulfill the general education mathematics requirement. See your adviser for further information.
Portfolio: Prior to graduation, students must complete and present a professional portfolio for approval to the marketing communications unit.
Internship: An internship or approved directed work experience is required. It is the student’s responsibility to originate an internship or directed work experience that meets marketing communications departmental criteria. Internships and directed work experiences must be approved by the Marketing communications internship supervisor before the work is done.
GPA: Students must maintain a 2.50 grade point average in the Marketing Communications Major.

Marketing Communications Major

Marketing Communications Major: 42 Total Credits
Core Requirements: 25-28 cr. hrs.
JOUR 101 Intro to Mass Communications 3 cr.
or AGED 110 Agricultural Communications
ART 225 Advertising Design I 3 cr.
JOUR112 Writing for the Mass Media 3 cr.
MARC 200 Introduction to Marketing Communications 3 cr.
MARC 480 Seminar in Theory and Methods of Marketing Communications 3 cr.
MKTG 311 Principles of Marketing for Marketing Communications Majors 3 cr.
MKTG 312 Consumer Behavior 3 cr.
SCTA 311 Persuasion 3 cr.

**Choose one of the following internship courses: 2-4 cr. hrs.**

MARC 379 Internship in Marketing Communications
or MARC 279 Cooperative Education/Directed Work Experience
or any CAFES department 270/370 internship
MARC 279/379 may be combined and/or repeated for a total of 4 credit hours.

**Directed Electives: 14-17 cr. hrs.**

**Writing Electives—Select one from:**
AGED 230 Agricultural News Writing 3 cr.
or JOUR 230 Agricultural News Writing
ENGL 266 Business Writing 3 cr.
ENGL 367 Technical Writing 3 cr.
JOUR 351 Editing for Print Media 3 cr.

**Visual Electives—Select one from:**
ART 235 Intro to Black and White Photography 3 cr.
JOUR 120 Radio and TV Field Production 3 cr.
JOUR 240 Introduction to Visual Communication 3 cr.
SCTA 160 TV Studio Production 3 cr.
SCTA 260 Electronic Field Production 3 cr.

**Marketing/Promotion Electives—Select one from:**
AGEC 368 Professional Selling 3 cr.
MKTG 365 Marketing Research 3 cr.
JOUR 260 Principles of Public Relations 3 cr.
JOUR 363 Advertising Principles 3 cr.

**Other Electives:**
Select from the following courses or consult with department chair or adviser for additional elective choices to total 42 credits required in the major:
Please check the course descriptions in this catalog for course prerequisites.
AGEC 355 Agricultural Markets and Prices 3 cr.
AGEC 368 Professional Selling 3 cr.
AGED 230 Agricultural News Writing 3 cr.
ART 235 Introduction to Black and White Photography 3 cr.
ART 303 Advertising Design II 3 cr.
ENGL 266 Business Writing 3 cr.
ENGL 367 Technical Writing 3 cr.
JOUR 120 Radio and Television Field Production 3 cr.
JOUR 230 Agricultural News Writing 3 cr.
JOUR 260 Introduction to Public Relations 3 cr.
JOUR 261 Public Relations Methods 3 cr.
JOUR 240 Introduction to Visual Communication 3 cr.
JOUR 351 Editing for Print Media 3 cr.
JOUR 362 Advertising Principles 3 cr.
JOUR 363 Advertising Methods 3 cr.
JOUR 465 Mass Communications Law 3 cr.
MKTG 352 Business to Business Marketing 3 cr.
MKTG 355 International Marketing 3 cr.
MKTG 365 Marketing Research 3 cr.
PHIL 316 Media Ethics 3 cr.
SCTA 316 Organizational Communication 3 cr.
MARC 389 Semester Abroad 3 cr.
Mass Communication
Department of Speech Communication and Theatre Arts
College of Arts and Sciences

B-24 Kleinpell Fine Arts Building
(715) 425-3971
www.uwrf.edu/scta/

Barbara L. Werner–Chair, Suzanne Hagen, Robin Murray, James Pratt, Ronald Snell, Kenneth Stofferahn, Margaret M. Swanson, James Zimmerman

Mass Communication Minor

Minor Requirements 24 Total Credits
Required Courses 12 cr. hrs.
SCTA 151 Broadcast Performance 3 cr.
SCTA 160 TV Studio Production 3 cr.
SCTA 260 Electronic Field Production 3 cr.
SCTA 261 Electronic Media Copy Writing 3 cr.

Directed Electives 12 cr. hrs.
Choose one of the following: 3 cr. hrs.
SCTA 310 Media Literacy–A Weapon Against Propaganda
SCTA 353 Mass Media and Popular Culture
SCTA 340 Gender, Race, Ethnicity and Class in Media
Choose one of the following: 3 cr. hrs.
SCTA 360 Corporate Electronic Communication
SCTA 458 Broadcast Programming and Criticism
Choose one of the following: 3 cr. hrs.
SCTA 311 Persuasion
JOUR 345 History of Mass Communication
Choose one of the following: 3 cr. hrs.
SCTA 284 Sophomore Seminar
SCTA 200 Introduction to Film Studies
SCTA 248 Film–Cultures in Conflict
SCTA 301 History of Film

A research/writing course experience is required in the major or another field; SCTA 284 Sophomore Seminar or another course approved by the department chair, will satisfy this requirement.

A senior portfolio experience is required in the major or another field; SCTA 484, Senior Portfolio experience is required in the major or another field; SCTA 484, Senior Portfolio Seminar or another course approved by the department chair, will satisfy this requirement.
Mathematics (MATH)
Department of Mathematics
College of Arts and Sciences

207 North Hall
(715) 425-3326
www.uwrf.edu/math

Keith Chavey-Chair, Robert Coffman, Kathryn Ernie, Ioana Ghenciu, Joyce Hague, Joyce Kapszukiewicz, Pamela Katzman, Laurel Langford, Don Leake, Stephen List, Kathy Tomlinson, Alexandru Tupan, David Yurchak,

The mathematics department offers two options for mathematics majors, the liberal arts option and the education option. Both are based on a common core curriculum of 18 credit hours.
1. The liberal arts mathematics major is designed for students who desire a general education in mathematics as a background for graduate school or a career related to mathematics.
2. The education mathematics major is designed for prospective secondary school teachers. The curriculum provides the student with specialized preparation in mathematics and professional training required to obtain teacher certification.

General Education Requirements

BA and BS Liberal Arts majors as listed on pages 22-23.
BS Education majors as listed on pages 31-32.

Mathematics Major - Liberal Arts

Mathematics Major - Liberal Arts: 37 Total Credits
Required Courses: 19 cr. hrs.
MATH 166 Calculus I 4 cr.
MATH 167 Calculus II 4 cr.
MATH 236 Discrete Mathematics 4 cr.
MATH 256 Linear Algebra 3 cr.
MATH 266 Calculus III 3 cr.
MATH 485 Seminar in Mathematics (writing intensive) 1 cr.
Directed Electives: 18 cr. hrs.
Select at least six mathematics courses numbered higher than 300, excluding Math 305 and 436
Required Supporting Courses: 3 cr. hrs.
select one from
MATH 205 Mathematical Programming 3 cr.
or CSIS 162 Programming II 3 cr.

Mathematics Major - Education

Professional Education Courses 39 cr. hrs.
TED 120 Introduction to Education and Instructional Technology 3 cr.
TED 212 Educational Psychology 5 cr.
TED 438 Techniques in Middle/Sec. Education: Mathematics 3 cr.
TED 420 School and Society 3 cr.
TED 422 Content Area Literacy in Middle and Secondary Schools 3 cr.
TED 423 Writing, Speaking and Listening in the Content Area 3 cr.
PSYC 330 Exceptional Child 3 cr.
TED 474 Student Teaching—Secondary Only 12 cr.
or TED 473 & 474 Student Teaching—Middle/Secondary (6 cr. each)
TED 414 Development of the Transescent 4 cr.

**Major Requirements 36 Total Credits**

**Required Courses: 30 cr. hrs.**
- MATH 166 Calculus I 4 cr.
- MATH 167 Calculus II 4 cr.
- MATH 236 Discrete Mathematics 4 cr.
- MATH 256 Linear Algebra 3 cr.
- MATH 266 Calculus III 3 cr.
- MATH 351 Abstract Algebra 3 cr.
- MATH 356 Probability 3 cr.
- MATH 411 Geometry 3 cr.
- MATH 326 Applied Statistics 3 cr.
or MATH 357 Mathematical Statistics 3 cr.

**Directed Electives: 6 cr. hrs.**
Select at least two mathematics courses numbered higher than 300, excluding MATH 305, 371, 379 and 436

**Required Supporting Courses: 5 cr. hrs.**
- MATH 436 History of Mathematics (writing intensive) 2 cr.
- MATH 305 Integrating Technology in Teaching Secondary Mathematics 3 cr.

**Mathematics Minor - Liberal Arts**

**Mathematics Minor - Liberal Arts: 24 Total Credits**

**Required Courses: 18 cr. hrs.**
- MATH 166 Calculus I 4 cr.
- MATH 167 Calculus II 4 cr.
- MATH 236 Discrete Mathematics 4 cr.
- MATH 256 Linear Algebra 3 cr.
- MATH 266 Calculus III 3 cr.

**Directed Electives: 6 cr. hrs.**
Select at least two mathematics courses numbered higher than 300, excluding MATH 305 436

**Required Supporting Courses: 3 cr. hrs.**
- select one from MATH 205 Mathematical Programming 3 cr.
- CSIS 162 Programming II 3 cr.
- PHYS 211 Scientific Programming 3 cr.

**Mathematics Minor - Education**

**Mathematics Minor - Education: 24 Total Credits**

**Required Courses: 21 cr. hrs.**
- MATH 166 Calculus I 4 cr.
- MATH 167 Calculus II 4 cr.
- MATH 236 Discrete Mathematics 4 cr.
- MATH 256 Linear Algebra 3 cr.
- MATH 326 Applied Statistics 3 cr.
- MATH 411 Geometry 3 cr.

**Directed Electives: 3 cr. hrs.**
Select one mathematics course numbered 266 or higher excluding MATH 279, 305, 371, 379 and 436
Required Supporting Courses: 5 cr. hrs.
MATH 305 Integrating Technology in Teaching Mathematics 3 cr.
MATH 436 History of Mathematics 2 cr.

Professional Courses (in addition to the major) 3 cr. hrs.
TED 438 Techniques in Middle/Sec. Education: Mathematics 3 cr.

Additional Courses for Middle School Certification 5 cr. hrs.
TED 414 Development of the Transescent 3 cr.
COUN 310 Counseling Skills for Teachers 2 cr.

Mathematics Minor - For Elementary Education Majors

Minor Requirements 22-23 Total Credits

Required Courses: 16 cr. hrs.
MATH 166 Calculus I 4 cr.
MATH 216 Elementary Statistical Concepts 3 cr.
MATH 236 Discrete Mathematics 4 cr.
MATH 248 Elementary Mathematics from an Advanced Standpoint 3 cr.
MATH 436 History of Mathematics 2 cr.

Directed Electives: 6-7 cr. hrs.
select two of the following
MATH 167 Calculus II 4 cr.
MATH 256 Linear Algebra 3 cr.
MATH 260 LOGO for Teachers 3 cr.
MATH 306 Number Theory 3 cr.
MATH 336 Combinatorics and Graph Theory 3 cr.
MATH 351 Abstract Algebra 3 cr.
MATH 356 Probability 3 cr.
MATH 361 Symbolic Logic 3 cr.
MATH 411 Geometry 3 cr.

Mathematics Minor - Business or Social Science

Mathematics Minor - Business or Social Science: 24 Total Credits

Required Courses: 18 cr. hrs.
MATH 166 Calculus I 4 cr.
MATH 167 Calculus II 4 cr.
MATH 236 Discrete Mathematics 4 cr.
MATH 256 Linear Algebra 3 cr.
MATH 226 Fundamental of Statistics 3 cr.
or MATH 326 Applied Statistics

Directed Electives: 6 cr. hrs.
Select two mathematics courses numbered 300 or higher, excluding MATH 305, 326 and 436
MISSION

All undergraduate students must complete General Education Program requirements comprising slightly fewer than one-third of the total credits needed to earn a degree. The General Education Program is designed to develop essential academic skills, to acquaint students with their cultural heritage, and to provide them with a broad base of liberal studies in the humanities, mathematics, and in the social and physical sciences. This program will serve as a foundation for study in a major. Further, it will develop breadth of knowledge and will cultivate the critical judgment necessary for mature and responsible lives in work, in leisure and as citizens of the nation and the world.

Select Mission of the University of Wisconsin-River Falls

The University of Wisconsin Board of Regents has approved mission statements for the University of Wisconsin System and for the several kinds of degree-granting institutions within the System. The System Mission Statement and the Core Mission of the University Cluster (predominantly four-year campuses) are included below. The Select Mission Statement for the University of Wisconsin -River Falls follows:

a. The university provides an excellent environment for learning, emphasizing the importance of faculty-student interaction in classrooms, laboratories, academic advising and co-curricular activities.
b. The university offers liberal arts programs and degrees to meet regional needs in the arts, humanities, mathematics, natural and physical sciences and social and behavioral sciences. The liberal arts also strengthen and broaden programs in the agricultural sciences, teacher education, and business administration.
c. The university offers professional programs and degrees in teacher education with special emphases in early childhood, elementary and secondary education.
d. The university offers programs and degrees in the agricultural sciences, agribusiness and agricultural teacher education.
e. The university offers graduate programs in education, agriculture and other areas clearly associated with its mission. Development of cooperative graduate instructional programs with appropriate institutions is encouraged.
f. The university expects scholarly activity, including research, scholarship and creative endeavor, that supports its programs at the baccalaureate level, its selected graduate programs and its select mission.
g. The university continues to develop interinstitutional relationships in cooperative research, graduate training and undergraduate programs within the state, region and world. As a border institution, the University promotes interstate cooperation.
h. The university provides students opportunities to develop an appreciation of the richness and diversity of American culture and is committed to representing this diversity in its staff and student body.
i. The university offers students the opportunity to increase their global awareness and sensitivity to other cultures. It also has a continuing commitment to provide opportunities for students to live, study and travel abroad and to increase the number and diversity of international students on campus.
j. The university provides public service by using its resources to address problems and concerns throughout the state and region. Special emphasis is placed on cooperative extension, extension and economic development outreach.
k. The university offers enrichment to the citizens of western Wisconsin and the St. Croix River Valley by providing artistic, scientific and other cultural events, programs and exhibitions.

The University of Wisconsin System Mission

Each institution of the University of Wisconsin System shares in the mission of the system.

The mission of this system is to develop human resources, to discover and disseminate knowledge, to extend knowledge and its application beyond the boundaries of its campuses, and to serve and stimulate society by developing in students heightened intellectual, cultural, and humane sensitivities; scientific, professional, and technological expertise; and a sense of value and purpose. Inherent in this mission are methods of instruction, research, extended education, and public service designed to educate people and improve the human condition. Basic
to every purpose of the system is the search for truth.

The Core Mission of the University Cluster

As institutions in the University Cluster of the University of Wisconsin System, the University of Wisconsin-Eau Claire, the University of Wisconsin-Green Bay, the University of Wisconsin- La Crosse, the University of Wisconsin-Oshkosh, the University of Wisconsin-Parkside, the University of Wisconsin-Platteville, the University of Wisconsin-River Falls, the University of Wisconsin- Stout, the University of Wisconsin-Superior, and the University of Wisconsin-Whitewater share the following core mission. Within the approved differentiation stated in their select missions, each university in the cluster shall:

a. Offer associate and baccalaureate degree level and selected graduate programs within the context of its approved mission statement.

b. Offer an environment that emphasizes teaching excellence and meets the educational and personal needs of students through effective teaching, academic advising, counseling, and through university-sponsored cultural, recreational, and extracurricular programs.

c. Offer a core of liberal studies that supports university degrees in the arts, letters, and sciences, as well as specialized professional/technical degrees at the associate and baccalaureate level.

d. Offer a program of pre-professional curricular offerings consistent with the university’s mission.

e. Expect scholarly activity, including research, scholarship, and creative endeavor, that supports its programs at the associate and baccalaureate degree level, its selected graduate programs, and its approved mission statement.

f. Promote the integration of the extension function, assist the University of Wisconsin - Extension in meeting its responsibility for statewide coordination, and encourage faculty and staff participation in outreach activity.

g. Participate in interinstitutional relationships in order to maximize educational opportunity for the people of the state effectively and efficiently through the sharing of resources.

h. Serve the needs of women, minority, disadvantaged, disabled, and nontraditional students and seek racial and ethnic diversification of the student body and the professional faculty and staff.

i. Support activities designed to promote the economic development of the state.
Modern Language (MODL)
Department of Modern Language
College of Arts and Sciences

284 Kleinpell Fine Arts Building
(715) 425-3121

www.uwrf.edu/modlang/

Margarita Hendrickson-Chair, Cecilia Bustamante, Monika Johansson, Peter Johansson, Kristine Butler Karlson, Terrence Mannetter, Lisa Myhre

The Modern Language Department offers a major in modern language with French, German and Spanish options. These programs lead to a B.A. or B.S. degree in liberal arts or a B.S. degree in secondary education. Minors are offered in French, German and Spanish. Two years of Chinese and Japanese are also available. Students who have studied a modern language in high school should take the Wisconsin Modern Language Placement Test, offered in spring Regional Testing and during all registration periods. Students may test out of up to fourteen credits. Test-out credits are not granted until the student completes the next level course with the grade of B or better.

General Education Requirements

BA and BS Liberal Arts majors as listed on pages 22-23;
BS Education majors as listed on pages 31-32.

Modern Language Major – Liberal Arts

Modern Language Major - Liberal Arts: 34 Total Credits
French Option-Liberal Arts
Required Courses: 31 cr. hrs.
FREN 102 Beginning French II 4
FREN 201 Intermediate French I 3
FREN 202 Intermediate French II 3
FREN 301 Conversation and Composition I 3
FREN 302 Conversation and Composition II 3
FREN 341 French Civilization 3
FREN 342 Modern France and Francophone Cultures 3
FREN 351 Survey of French Literature to 1800 3
FREN 352 Survey of French Literature 1800 to present 3
FREN 401 Advanced French Communication 3
Directed Electives: 3 cr. hrs.
Select 3 credits from:
FREN 451 French Prose Fiction 3
FREN 452 French Poetry 3
FREN 453 French Drama 3
FREN 490 Readings in French 1-3
MODL 379 Internship in Modern Language 2-3

French Option-Education
Required Courses: 31 cr. hrs.
FREN 102 Beginning French II 4
FREN 201 Intermediate French I 3
FREN 202 Intermediate French II 3
FREN 301 Conversation and Composition I 3
FREN 302 Conversation and Composition II 3
FREN 341 French Civilization 3
FREN 342 Modern France and Francophone Cultures 3
FREN 351 Survey of French Literature to 1800 3
FREN 352 Survey of French Literature 1800 to present 3
FREN 401 Advanced French Communication 3

**Required supporting courses not part of major: 5 cr. hrs.**

FREN 350 French Phonetics 2
TED 437 Techniques of Middle/Secondary Education: Modern Language 3

**German Option-Liberal Arts**

**Required Courses: 19 cr. hrs.**

GERM 102 Beginning German II 4
GERM 201 Intermediate German I 3
GERM 202 Intermediate German II 3
GERM 301 Conversation and Composition I 3
GERM 302 Conversation and Composition II 3
GERM 401 Advanced German Communication 3

**Directed Electives: 15 cr. hrs.**

Select 12 credits from:

GERM 275 Business German 3
GERM 315 German Classic and Modern Film 3
GERM 341 German Civilization 3
GERM 342 Modern German-speaking Cultures 3
GERM 351 Survey of German Literature to Classicism 3
GERM 352 Survey of German Literature from Classicism to Present 3

Select 3 credits from:

GERM 451 German Drama and Theatre 3
GERM 452 German Tale, Short Story and Novella 3
GERM 453 German Poetry 3
GERM 490 Readings in German 1-3
MODL 379 Internship in Modern Language 2-3

**German Option-Education**

Complete German major option program  
(must include 341 and/or 342)

**Required supporting courses not part of major: 3 cr. hrs.**

GERM 350 German Phonetics 2
TED 437 Techniques of Middle/Secondary Education: Modern Language 3

**Spanish Option-Liberal Arts**

**Required Courses: 19 cr. hrs.**

SPAN 102 Beginning Spanish II 4
SPAN 201 Intermediate Spanish I 3
SPAN 202 Intermediate Spanish II 3
SPAN 301 Conversation and Composition I 3
SPAN 302 Conversation and Composition II 3
SPAN 401 Advanced Spanish Communication 3

**Directed Electives: 15 cr. hrs.**

Select 6 credits from:

SPAN 341 Spanish Civilization to 1800 3
SPAN 342 Spanish Civilization 1800 to Present 3
SPAN 345 Latin American Civilization to 1800 3
SPAN 346 Latin American Civilization 1800 to Present 3
MODL 376 Mexico: A Cultural Experience 3
**Select 6 credits from:**
- SPAN 351 Survey of Spanish Literature-Siglo de Oro 3
- SPAN 352 Survey of Spanish Literature-Generation of 1898 to Present 3
- SPAN 355 Survey of Latin American Literature-Conquest to Independence 3
- SPAN 356 Survey of Latin American Literature-Independence to Present 3

**Select 3 credits from:**
- SPAN 452 Advanced Spanish Literature 3
- SPAN 455 Advanced Latin American Literature 3
- SPAN 490 Readings in Spanish 1-3
- MODL 379 Internship in Modern Language 2-3

**Spanish Option-Education**
Complete Spanish Major Liberal Arts Option program above
**Required supporting courses not part of major: 5 cr. hrs.**
- SPAN 350 Spanish Phonetics 2
- TED 437 Techniques of Middle/Secondary Education: Modern Language 3

**French Minor**

**French Minor: 22 Total Credits**
**French Minor-Liberal Arts Required Courses: 19 cr. hrs.**
- FREN 102 Beginning French II 4
- FREN 201 Intermediate French I 3
- FREN 202 Intermediate French II 3
- FREN 301 Conversation and Composition I 3
- FREN 302 Conversation and Composition II 3
- FREN 401 Advanced French Communication 3
**Directed Electives: 3 cr. hrs.**
**Select 3 credits from:**
- FREN 341 French Civilization 3
- FREN 342 Modern French and Francophone Cultures 3
- FREN 351 Survey of French Literature to 1800 3
- FREN 352 Survey of French Literature 1800 to Present 3
- MODL 379 Internship in Modern Language 2-3

**French Minor-Education**
Complete French Minor Liberal Arts program (must include FREN 341 or 342)
**Required courses not part of minor: 5 cr. hrs.**
- FREN 350 French Phonetics 2
- TED 437 Techniques of Middle/Secondary Education: Modern Language 3

**German Minor-Liberal Arts**

**German Minor: 22 Total Credits**
**Required Courses: 19 cr. hrs.**
- GERM 102 Beginning German II 4
- GERM 201 Intermediate German I 3
GERM 202 Intermediate German II 3
GERM 301 Conversation and Composition I 3
GERM 302 Conversation and Composition II 3
GERM 401 Advanced German Communication 3

**Directed Electives: 3 cr. hrs.**

**Select 3 credits from:**
- GERM 275 Business German 3
- GERM 315 German Classic and Modern Film 3
- GERM 341 German Civilization 3
- GERM 342 Modern German-speaking Cultures 3
- GERM 351 Survey of German Literature to Classicism 3
- GERM 352 Survey of German Literature from Classicism to Present 3
- MODL 379 Internship in Modern Language 2-3

**German Minor-Education**

**Complete German minor program**

(must include 341 or 342)

**Required supporting courses not part of minor: 5 cr. hrs.**
- GERM 350 German Phonetics 2
- TED 437 Techniques of Middle/Secondary Education: Modern Language 3

**Spanish Minor-Liberal Arts**

**Spanish Minor: 22 Total Credits**

**Required Courses: 19 cr. hrs.**
- SPAN 102 Beginning Spanish II 4
- SPAN 201 Intermediate Spanish I 3
- SPAN 202 Intermediate Spanish II 3
- SPAN 301 Conversation and Composition I 3
- SPAN 302 Conversation and Composition II 3

**Directed Electives: 3 cr. hrs.**

**Select 3 credits from:**
- SPAN 341 Spanish Civilization to 1800 3
- SPAN 342 Spanish Civilization 1800 to Present 3
- SPAN 345 Latin American Civilization to 1800 3
- SPAN 346 Latin American Civilization 1800 to Present 3
- SPAN 351 Survey of Spanish Literature-Siglo de Oro 3
- SPAN 352 Survey of Spanish Literature-Generation of 1898 to Present 3
- SPAN 355 Survey of Latin American Literature-Conquest to independence 3
- SPAN 356 Survey of Latin American Literature-Independence to Present 3
- MODL 376 Mexico: A Cultural Experience 3
- MODL 379 Internship in Modern Language 2-3
- SPAN 401 Advanced Spanish Communication 3

**Spanish Minor-Education**

**Complete Spanish Minor Liberal Arts program**

(must include 401 and 341, 342, 345, 346 or 376)

**Required supporting courses not part of minor: 5 cr. hrs.**
- SPAN 350 Spanish Phonetics 2
- TED 437 Techniques of Middle/Secondary Education: Modern Language 3
Music (MUS/MUSE/MUSA)
Department of Music
College of Arts and Sciences

B46 Kleinpell Fine Arts Building
(715) 425-3183
www.uwrf.edu/music

J. Michael Roy-Chair, Thomas Barnett, Carolyn Britton, Hilree Hamilton, David Milne, Sarah Parks, Lillian Tan, Kristin Tjornehoj

The Department of Music offers majors leading to the degrees of Bachelor of Music Education (B.M.E.), Bachelor of Arts (B.A.) or Bachelor of Science (B.S.). In the B.M.E. degree program, students may elect either a Choral/General Music (K-12) emphasis (includes a piano-vocal option) or an Instrumental/General Music (K-12) emphasis. Choices in the B.A. or B.S. degrees include majors in either Liberal Arts or Music-Broad Area. The Music Education and Music-Broad Area majors require no minor. The Liberal Arts major requires a minor or double major. The B.M.E. degree is designed to train and certify public school music teachers, whereas, the B.A. and B.S. degrees do not provide teacher certification but are designed for those students seeking admittance to a professional graduate school or another music related career.

The department also offers a Music Minor (non-teaching) and a Musical Theatre Minor. All applicants for admission to degree programs in music must satisfactorily complete a performance audition. Audition requirements for all performance areas are available from the Music Department. In addition to the performance audition, all transfer applicants must take a music theory and history placement exam. The results of the exam will determine the appropriate course levels. Music students should consult the department handbook, which clarifies course requirements and provides additional pertinent information.

The University of Wisconsin-River Falls is an accredited institutional member of the National Association of Schools of Music.

General Education Requirements

BA and BS Liberal Arts majors as listed on pages 22-23.
BS Education majors as listed on pages 31-32.

Music Education Major

Music Education Major 69 Total Credits

Requirements: 36 cr. hrs.
MUS 130 Music Theory and Ear Training I 4 cr.
MUS 131 Music Theory and Ear Training II 4 cr.
MUS 230 Music Theory and Ear Training III 4 cr.
MUS 231 Music Theory and Ear Training IV 4 cr.
MUS 234 Music History and Literature I (writing intensive) 4 cr.
MUS 235 Music History and Literature II (writing intensive) 4 cr.
MUS 240 Piano Proficiency - Examination: MUS 140 0 cr.
(Class Piano) must be taken until 240 is passed; 140 and 240 credits are not counted toward music major.
MUS 333 20th Century Music 3 cr.
MUS 351 Music Education I 3 cr.
MUS 352 Music Education II 3 cr.
MUS 491 Senior Recital 0 cr.
MUS 200+ Any Music Course 200 and above 3 cr.
Pianists must take MUS 440: Piano Pedagogy

**Required Courses for Choral/General Certification: 33 cr. hrs.**
MUSA 127 Applied Voice-Pianists may substitute 3 cr. of Applied Piano 125 (2 per semester) 8 cr.
MUSA 327 Applied Voice (upper level)-Pianists may substitute 3 cr. of Applied Piano 325 (2 per semester) 6 cr.
MUSE 108 Concert Choir (required each semester)
MUS 102 Class Guitar 1 cr.
MUS 247 Diction I: IPA and Italian 1 cr.
MUS 248 Diction II: German and French 1 cr.
MUS 341 Vocal and Choral Pedagogy 3 cr.
MUS 342 Conducting 2 cr.
MUS 344 Choral Conducting 2 cr.
MUS 331 Choral Composition and Arranging 3 cr.
MUS 433 Choral Literature 3 cr.
MUS 340 Opera Techniques 3 cr.

**Required Courses for Instrumental/General Certification: 33 cr. hrs.**
MUSA 100 level Applied - credits must be in the same area (2 per semester) 8 cr.
MUSA 300 level Applied - upper level - credits must be in the same area (2 per semester) 6 cr.
MUSE 111 University-Community Orchestra
or MUSE 113 Wind Ensemble (large ensemble required each semester)
MUS 102 Class Guitar 1 cr.
MUS 103 Class Voice 1 cr.
MUS 141 String Techniques 1 cr.
MUS 241 Woodwind Techniques I 1 cr.
MUS 242 Woodwind Techniques II 1 cr.
MUS 243 Brass Techniques I 1 cr.
MUS 244 Brass Techniques II 1 cr.
MUS 245 Percussion Techniques I 1 cr.
MUS 246 Percussion Techniques II 1 cr.
MUS 342 Conducting 2 cr.
MUS 343 Instrumental Conducting 2 cr.
MUS 330 Orchestration 3 cr.
MUS 431 Instrumental Literature 3 cr.

**Required for Teacher Certification: 29 cr. hrs.**
(not counted in major total)
Choral/General or Instrumental/General (courses to be taken in the College of Education)
TED 120 Introduction to Education and Instructional Technology 3 cr.
TED 212 Educational Psychology: Middle and Secondary Education 5 cr.
TED 420 School and Society 3 cr.
TED 422 Content Area Literacy 3 cr.
PSYC 330 The Exceptional Child 3 cr.
TED 475 Student Teaching 12 cr.

**Music Major - Liberal Arts**

**Music Major - Liberal Arts (minor required): 46 Total Credits**

**Requirements: 35 cr. hrs.**
MUS 130 Music Theory and Ear Training I 4 cr.
MUS 131 Music Theory and Ear Training II 4 cr.
MUS 230 Music Theory and Ear Training III 4 cr.
MUS 231 Music Theory and Ear Training IV 4 cr.
MUS 234 Music History and Literature I (writing intensive) 4 cr.
MUS 235 Music History and Literature II (writing intensive) 4 cr.
MUS 333 20th Century Music 3 cr.
MUSA 100 level Applied Music-credits must be in the same area. 4 cr.
MUSE Music Ensembles 4 cr.
**Directed Electives: 11 cr. hrs.**
MUSA or MUSE Performance credits (Applied Music or Ensembles) 4 - 6 cr.
Music Pedagogy, Techniques Course(s) or Academic Music course 200 level and above 4 - 6 cr.

**Music-Broad Area Major**

**Music-Broad Area Major: 64 Total Credits**
**Requirements: 36 cr. hrs.**
MUS 130 Music Theory and Ear Training I 4 cr.
MUS 131 Music Theory and Ear Training II 4 cr.
MUS 230 Music Theory and Ear Training III 4 cr.
MUS 231 Music Theory and Ear Training IV 4 cr.
MUS 234 Music History and Literature I (writing intensive) 4 cr.
MUS 235 Music History and Literature II (writing intensive) 4 cr.
MUS 240 Piano Proficiency - Examination: MUS 140 0 cr/
(Class Piano) must be taken until 240 is passed; 140 and 240 credits are not counted toward music major.
MUS 333 20th Century Music 3 cr/
MUSA 100 level Applied credits must be in the same area (2 per semester) 8 cr/
MUSA 300 level Applied-upper level credits must be in the same area (2 per semester) 8 cr/
MUSE 108 Concert Choir (1 cr.)
or MUSE 111 University-Community Orchestra (1 cr.)
or MUSE 113 Symphonic Band (1 cr.) to total 4 cr.
MUSE Any Ensemble to total 4 cr.
MUS 491 Senior Recital 1 cr.
MUS 330 Orchestration
or MUS 331 Choral Composition and Arranging 3 cr.
MUS 200+ Any Music Courses 200 level and above 3 cr.
MUS 200+ Any Music Courses 200 level and above 3 cr.
MUS 200+ Any Music Courses 200 level and above 3 cr.

**Music Minor**

**Music Minor: 24 Total Credits**
**Required Courses: 16 cr. hrs.**
MUS 130 Music Theory and Ear Training I 4 cr.
MUS 131 Music Theory and Ear Training II 4 cr.
MUS 234 Music History and Literature I (writing intensive) (can be double counted in Gen. Ed.) 4 cr.
MUS 235 Music History and Literature II (writing intensive) 4 cr.
**Directed Electives: 8 cr. hrs.**
MUS Choose from the areas of music history, music theory, jazz, composition, piano pedagogy, or applied.
The minor in Musical Theatre, offered as a collaborative effort between the departments of speech communication and theatre arts, music, and health and human performance (dance), is designed to provide students an opportunity to gain formal training. It includes courses in music theory and performance, dance styles, and stage movement, as well as additional courses in theatrical performance, production, and design, with special consideration to their application in creation of and performance in musical production. This minor is available to all students, including music and theatre majors and minors.

Musical Theatre Minor

Musical Theatre Minor: 24 Total Credits

Required Courses: 18 cr. hrs.
MUS 103 Class Voice 1 cr.
MUS 130 Music Theory and Ear Training I 4 cr.
MUS 131 Music Theory and Ear Training II 4 cr.
MUS 225 Voice for the Actor 1 cr.
SCTA 121 Acting I: Basic Techniques 3 cr.
SCTA 225 Musical Theatre Performance 3 cr.
SCTA 375 Theatre Practicum: Production 2 cr.

Directed Electives: 2 cr. hrs.
Select from the following:
DANC 107 Social Dance .5 cr.
DANC 110 Basic Jazz Dance .5 cr.
DANC 120 Fundamentals of Movement through Dance 1 cr.
DANC 150 Dance Improvisation 1 cr.
DANC 224 Ballet I 1 cr.

Electives: 4 cr. hrs.
Select from the following:
DANC 107 Social Dance .5 cr.
DANC 110 Basic Jazz Dance .5 cr.
DANC 224 Ballet I 1 cr.
DANC 260 Dance Repertory 1-3 cr.
SCTA 131 Design for the Theatre 3 cr.

A maximum of 3 credits from the following 3 courses may be applied toward electives:
SCTA 231 Stage Technology and Scene Painting 3 cr.
or SCTA 332 Stage Costuming
or SCTA 333 Stage Lighting
SCTA 221 Acting II: Characterization 3 cr.
SCTA 222 Voice and Articulation 3 cr.
SCTA 288 Career Development: Theatre Arts 1 cr.
SCTA 339 American Theatre 3 cr.
MUSA 127 Applied Voice (a maximum of 2 may be applied toward electives) 1 cr.
MUS 230 Music Theory and Ear Training III 4 cr.
MUS 340 Opera Techniques 3 cr.

Students majoring in Music or Speech (any emphasis) may not double count any course when completing the Musical Theatre Minor.
Speech Communication and Theatre Arts and Music majors should consult with an adviser and substitute other
electives (from the list above) for those required in both their major and minor.
Outdoor Education
Department of Health and Human Performance
College of Education and Professional Studies

111 Karges Center
Phone Number (715) 425-3705
www.uwrf.edu/hhp/

Chair–Faye Perkins, Debra Allyn, Jenn Berna, Richard Bowen, Martha Brennan, Kevin Bullis, Dean Culpepper, Gary Eloranta, Patti Ford, Steve Freeman, Bill Henderson, Cindy Hovet, Crystal Lanning, John O'Grady, Robert Ritzer, Jim Tangen-Foster, Sue Tarr, Karla Zhe

Outdoor Education Minor

Minor Requirements 24 Total Credits
Required Courses: 13-16 cr. hrs.
PED 201 Outdoor Education Concepts and Skills-Summer 3 cr.
PED 202 Outdoor Education Concepts and Skills-Winter 3 cr.
PED 371 Recreation Field Study 1-4 cr.
PED/ESM 301 Foundation of Outdoor Leadership 3 cr.
SFED 200 First Aid and Basic Life Support 2 cr.
Electives 8-11 cr. hrs.
ESM 300 Environmental Education 3 cr.
or GEOG 300 Environmental Education
ESM 307 Multicultural Perspectives in the Environment 3 cr.
ESM 365 Interpretive Services 3 cr.
GEOL 269 Environmental Geology 2 cr.
PED 109 Recreational Climbing 1 cr.
PE 118 Scuba .5 cr.
PE 128 Fundamentals of Ice Skating .5 cr.
PED 145 Lifeguard Training 2 cr.
PED 147 Water Safety Instructor 2 cr.
PED 255 Techniques in Sport Fishing 1 cr.
PED 300 Adapted Physical Education 2 cr.
PED 389 Special Topics in Physical Education 3-5 cr.
PED 450 Organization and Administration of Physical Education and Athletics 2 cr.
POLS 355 Environmental Law 3 cr.
SOCI 230 Sociology of Sport and Leisure 3 cr.
TED 312 Techniques in Elementary Education: Science 4 cr.
College of Agriculture, Food and Environmental Sciences

210 Agricultural Science Building
(715) 425-3784
(715) 425-3785 FAX
www.uwrf.edu/college-of-agriculture

The College of Agriculture, Food and Environmental Sciences (CAFES) has provided education in the agricultural sciences since 1912 and has earned an outstanding reputation for high quality education and service to the people of Wisconsin.

Because the local and global issues which concern agriculture, food and the environment are continuously changing, graduates with degrees in any of 16 major academic areas will find many challenging career opportunities. Graduates can expect to find employment in the food and agricultural sciences, biotechnology, production agriculture, agricultural business, environmental sciences, and natural resources. Special areas of emphasis include dairy science, horse science, meat animal science, horticulture, agronomy, agricultural engineering technology, environmental science, food science, conservation, land use planning, marketing communications, and geology. Graduates may also elect to pursue careers in teaching, research, and extension after obtaining advanced degrees.

The College is equipped with excellent classroom facilities and teaching laboratories. Prominent among the latter are food processing plants, a computer aided drafting laboratory, a plant tissue culture laboratory, and a greenhouse with a computerized environmental control system. Other laboratories support teaching in microbiology, biochemistry, nutrition, soil and water science, geology, resource management, plant science, animal physiology, electronics, structures, farm power, plastics, metals, and machinery.

The College operates a laboratory farm which support beef and dairy cattle, swine, sheep and horse enterprises. The livestock and agronomy, horticulture, and forestry enterprises provide vital resources for University teaching, extension, and research.

Departments and Majors

AGRICULTURAL ECONOMICS
Agricultural Business

AGRICULTURAL EDUCATION
Agricultural Education

AGRICULTURAL ENGINEERING TECHNOLOGY
(Agricultural Engineering Technology, Environmental Engineering Technology, and Mechanized Systems Management Options)

ANIMAL & FOOD SCIENCE
Animal Science (Meat Animal Science and Equine Science Emphases)
Dairy Science (Management & Science Options)
Food Science & Technology (Industry, Dairy Technology & Science Options)

PLANT & EARTH SCIENCE
Conservation
Crop and Soil Science
Geology (Bachelor of Science Program and Earth Science Teacher Certification Option - Secondary Education)
Horticulture (Professional Horticulture Option and Landscape Design and Contracting Option)
Land Use Planning

CAFES INTERDISCIPLINARY MAJORS
Biotechnology
Agricultural Studies
Environmental Science
Marketing Communications

Several majors also provide options or emphases areas for increased specialization. Courses in agricultural communications can be taken under the Agricultural Studies Major or in Marketing Communications. Certification in Earth Science for teaching in secondary schools may be obtained by enrolling in the Geology major.

Minors (minimum of 22 credits) are offered in most of the areas identified above and in Environmental Studies, Hydrogeology, Outdoor Education, and Earth Science.

Several related two-year programs provide college-level training leading to a Two-Year Certificate.

**Internship Programs**

The College of Agriculture, Food and Environmental Sciences is committed to educational programs in which students in any major or minor in the College have the opportunity to combine classroom learning with planned and supervised field experiences through the Internship program. The program makes a significant contribution to individual students in their personal, social and career development. The Internship Program is open to those students who have completed at least 30 credits of course work and who have a cumulative GPA of 2.00 or above.

The Internship Program requires the work supervisor and faculty coordinator to develop learning objectives with the student and to evaluate the student’s experience. The final grade is given by the faculty coordinator. Participating students are required to complete an approved special project in collaboration with the firm or agency involved. Students must also submit progress reports on a regular basis.

A total of four credits may be earned during a 10- to 16-week period, or eight credits may be awarded for a 32-week internship experience. A maximum of eight credits may be used to fulfill a part of the graduation requirement. Students in the Internship Program receive remuneration for their work during the field experience. Students interested in these programs should contact the Internship Office, College of Agriculture, Food and Environmental Sciences, (715) 425-3368, or contact a faculty internship coordinator in any of the departments.

**International Programs Center**

The International Programs Center (IPC) in the College of Agriculture, Food and Environmental Sciences coordinates technical assistance and training programs on behalf of the University. A full range of services for international students and trainees is offered by the university. Governments and agencies sponsoring international students who require special academic or administrative services may be required to pay an administrative fee. The current administrative fee policy and schedule is available from IPC, 210 Agricultural Science Building, (715) 425-3535.

**Interdepartmental Courses**

AGED 140 Orientation to College, 2
AGED 260 Professional Careers in Agriculture, 2

Courses listed in each college program area:

270 Internship I, 2-4
271 International Internship, 4
370 Internship II, 2-4

**Bachelor Of Science Degree**
Requirements for CAFES Departmental Majors 120 Total Credits

A. General Education 41-43 Cr. Hrs.

1. Communications 9 cr. hrs.
SCTA 101, 116 or 211 3 cr.
ENGL 111, 112 or 112H 6 cr.

2. Humanities and Fine Arts 8-9 cr. hrs.
Select one for 3 cr.: ENGL 241, 242, 243, 244 or 245
Select one for 3 cr.: ART 100, 211, 212; DANC 100, MUS 100, 200, 234, 235; SCTA 105, 337, 338, 339
Select one for 3 cr.: ENGL 203, 206, 207, 212, 214, 222, 231, 232, 233, 234, 235, 300, 443; MODL: any 1st year/2nd sem. language course, any 2nd year language course, or any 3rd year language course; PHIL 151, 221, 222, 223, 224, 230, 235, 240, 245, 265;
IHUM 498 (2 cr.).

Select one course from 3 of these groups:
ANTH 100 3 cr.
ECON 100 3 cr.
GEOG 120 3 cr.
HIST 102, 103, 104 3 cr.
POLS 114, 260 3 cr.
PSYC 101 3 cr.
ESM 105 3 cr.
SOCI 100 3 cr.
ISSC 496 2 cr.

4. Sciences 10-12 cr. hrs.
CHEM 121 5-6 cr.
or CHEM 110 (may substitute for CHEM 121 with Dean’s Approval)
Select two courses from the following:
BIOL 150 or 100 (required for An. and Fd. Sci., Crops and Soils, Hort., Geol., Earth Sci. Educ. and Conservation majors) 3 cr.
GEOL 101 (required for Geol., Earth Sci. Educ. and Conservation majors) 3 cr.
PHYS 151 or 161 (required for Ag. Eng. and Fd. Sci. majors) 3-4 cr.
ISCI 497 2 cr.

5. Mathematics 3 cr. hrs.
MATH 146 or a higher number Algebra-Calculus course 3 cr.

6. Physical Education 2 cr. hrs.
P ED108 1 cr.
Two .5 cr. activities courses 1 cr.
Students must take one but no more than two of the two credit Senior Interdisciplinary Study courses. A course emphasizing human diversity is also required. See page 12 for a list of current diversity courses.

B. Foundation Courses in Agriculture 12-18 cr. hrs.
AGEC 230 3 cr.
AGEN 150 3 cr.
CROP 161 or HORT 161 3 cr.
ANSC 111 3 cr.
FDSC 112 3 cr.
SOIL 210 3 cr.

C. Major Concentration 59-64 cr. hrs.
Required courses and electives as required by the departmental major.

Agricultural Studies Major
The Agricultural Studies major enables the student to gain a breadth of knowledge about many areas within the field of agriculture, food and environmental science. A relatively large course elective component allows students to be flexible in meeting individual needs. For example, students may elect courses in agricultural communications under this major (see page 60 for details).

**Two-Year Program In Agricultural Sciences**

This program is intended for students who wish to enter agriculturally-related occupations or production agriculture. Although the program is designed as a two-year course of study, all of the courses in the program are selected from the four-year curriculum. Students who later decide to work toward the B.S. degree will receive full credit for courses completed successfully under this program. Students must maintain a 2.00 or above GPA.

Upon application by the student, a certificate will be awarded by the College of Agriculture, Food and Environmental Sciences after successful completion of the two-year program.

**Two-year program requirements 60 Total Credits**

**A. General Education 25 Credits**

- ENGL 111, 112, or 112H 6 cr.
- SCTA 101 3 cr.
- BIOL 150 or 100 3 cr.
- CHEM 121 or 110 (may substitute for CHEM 121 with Dean’s Approval) 5-6 cr.
- ESM 105 3 cr.
- MATH 146 3 cr.
- PED 108 1 cr.
- PE (Select two .5 cr. activities courses) 1 cr.

**B. Courses in Agricultural Science 30-31 Credits**

Student must select and complete the requirements for one of the following areas of specialization:

1. **Agricultural Business**
   - AGEC 230, 305, 355 9 cr.
   - Select three of the following courses in AGEC: 345, 360, 365, 368, 468 9 cr.
   - Ag Sciences electives 12-13 cr. hrs.

2. **Agricultural Communications**
   - AGED 110, 202, 230, 260 15 cr.
   - JOUR 112 3 cr.
   - SCTA 116 3 cr.
   - CPTS 105 2 cr.
   - ENGL 367 3 cr.
   - Ag Sciences electives 4-5

3. **Agricultural Engineering Technology**
   - AGEN 150, GENG 121, 235 8 cr.
   - Select three: AGEN or GENG 100 or 200 level courses 7 cr.
   - Select three: AGEN or GENG 300 or 400 level courses 8-9 cr.
   - Ag Sciences electives 6-7 cr. hrs.

4. **Agronomy**
   - CROP 161, 260, 263, 266, 345 14 cr.
   - SOIL 210, 311 7 cr.
   - AGEC 230 3 cr.
   - Ag Science electives 6-7 cr.

5. **Dairy Science**
   - ANSC 111, 231, 232, 257, 345 14 cr.
   - DASC 120, 306 4 cr.
   - Ag Sciences electives 12 cr. hrs.

6. **Farm Management**
AGEC 230, 305, 360 9 cr.
Select 2: AGEC 345, 355, 365 6 cr.
ANSC 231 3 cr.
CROP 161 3 cr.
SOIL 210 3 cr.
Ag Sciences electives 6-7 cr. hrs.

7. Food Science
FDSC 112, 113, 312, 313, 335 17 cr.
FDSC electives 6 cr. hrs.
BIOL 324 4 cr.
Ag Sciences or Business electives 5-6 cr. hrs.

8. Horse Science
ANSC 111, 167, 168, 231, 232, 369, 257 18 cr.
Select 1: ANSC 261 or 268 3 cr.
Agricultural Sciences electives 8-9 cr.

9. Horticulture
AGRON/HORT 161 3 cr.
HORT 169, 200, 310, 327 or 347, 352 16 cr.
BIOL 314, SOIL 210 6 cr.
Directed electives 5-6 cr.

10. Meat Animal Science
ANSC 111, 140, 231, 232, 257 15 cr.
Select 2: ANSC 365, 366, 367, 368 6 cr.
Agricultural Sciences electives 9 cr.

11. Soil Science
SOIL 210, 311, 350, 440 15 cr.
CROP 161, 263, 264, 345 12 cr.
GEOL 101,102 4 cr.
Ag Sciences electives 0 cr.

C. Free electives 4-5 cr. hrs.
The liberal arts have played an increasingly important role at the University of Wisconsin-River Falls since the mission of the University was broadened from that of a teachers college half a century ago.

Based on the premise that the liberal arts offer the strongest foundation for society through the development of the intellectual, cultural and social concepts of the student, the College of Arts and Sciences offers many opportunities. The mission of the college is to provide for the education of the complete person, education for citizenship and leadership, education for a productive life, and education for the love of learning. These are the primary values associated with a liberal arts education regardless of the discipline.

The College of Arts and Sciences offers majors within its three divisions, Arts and Humanities, Sciences and Mathematics, and Social Sciences, whose curricula prepare students for professional careers and graduate school.

Though changes will take place in the period that this catalog is in effect, the continuing theme will be that of allegiance to students and their opportunities to learn.

Liberal Arts majors and minors available in the College of Arts and Sciences include: art, biology, biotechnology, chemistry, communicative disorders, economics, English, environmental science, geography, history, journalism, marketing communications, mathematics, modern languages (French, German and Spanish), music, physics, political science, psychology, social work, sociology, speech communication, teaching English as a second language (TESOL), and theatre arts. In addition, there are broad area majors in fine arts (Bachelor of Fine Arts), English (for education majors), music, science and social studies. Minors not identified with majors include: anthropology; business communication; GIS and cartography; computer science; criminal justice; mass communication; philosophy; professional writing; theater; and interdisciplinary minors in decision sciences; ethnic studies; international studies; film studies; musical theatre; and women’s studies. Additional minors provided for education majors include: language arts, general science, and social science.

Curricula in the Arts and Sciences

The four-year curriculum, leading to the Bachelor of Arts or the Bachelor of Science degree, was authorized by the governing board of the State Universities in 1951. This program is designed to give a broad, liberal education and to be the foundation for further specialization in graduate schools, professional colleges of medicine, law, dentistry, engineering and others, or to prepare the student to go directly into the civil service, industry and other fields of work.

A total of 120 semester hours is required for graduation. One full year of work (30 credits) must have been done in residence and the last 15 credits for the degree must have been done in residence unless the dean of the college permits an exception. A candidate must have an honor point average of 2.25 in advanced courses (numbered 300 and above) in the major field of specialization and must have an overall honor point average of 2.0 to graduate.

Liberal Arts Degrees

Bachelor of Arts

General Education 39 cr. hrs.
Major 34-36 cr. hrs.
The courses taken to satisfy the Language Competency, International Component and College Requirement may not be counted toward the major. However, they may be counted toward an optional minor, as a minor is not required for the BA degree.

Language Competency 14-17 cr. hrs.
(see test-out rules on page 201) This requirement can be met by satisfying one of the following guidelines:
Two years of one foreign language taught at UW-RF or transferred;
Test-out into 100 or 200 level and complete through the 202 course;
Test-out into 300 level and complete the 301 course.
Modern Languages majors can satisfy this requirement by:
Taking 14 credits in a language other than the language of the major; or
taking 14 credits of additional coursework selected from the College Requirements and/or the International Component; or completing a minor in another field.

International Component 6 cr. hrs.
Select international experience and/or international focus courses.
International experience courses:
INTS 370, 377; HUM 374; ART/ENGL 376; MODL 376, 377
International focus courses:
ART 314, 318; ECON 328, 344; ENGL 441; GEOG 340, 342, 343, 344; HIST 201, 349, 371; HUM 261; INTS 200; MODL–FREN 342, GERM 342, SPAN 342, 346; MUS 300; PHIL 245; POLS 245, 346, 347, 348, 349; and all departments 378.

College Requirement 12-14 cr. hrs.
Courses must be outside the department of the major. Courses must be taken from at least three groups but must include Philosophy as one of the groups.
Philosophy - 200 level or higher
History of the arts (art, music, theatre, dance) - 200 level or higher:
ART 211, 212, 311, 312, 314, 318; MUS 234, 235; SCTA 337, 338, 339
Literature (from English or Modern Language departments) - 300 level or higher
History - 200 level or higher
Arts and Ideas-Humanities 255, 256
Supporting Courses/Electives 8-13 cr. hrs.
As needed to achieve 120 credits
Diversity Requirement
A three-credit course which may be double-counted toward any requirement or may be applied toward electives.
TOTAL 120 cr. hrs.

Bachelor of Fine Arts

Requirements for this degree are identified in the Art Department section. See page 42 of the printed catalog.

Bachelor of Science

General Education 39 cr. hrs.
Major/Minor (Major 34-36/Minor 21-24) 55-60 cr. hrs.
Additional departmental requirements 0-28 cr. hrs.
i.e., supporting courses outside the major/minor departments
Requirements vary according to program.

Liberal Arts 10 cr. hrs.
See liberal arts courses listing below.
Courses must be at the 200 level or above with the exception of Modern Language courses; testout credits are excluded.
All courses taken to meet the Liberal Arts requirements must be outside the division of the major and outside the department of the minor; there must be at least one course in each of two divisions but no more than six credits in any one division. The divisions are:
1. Humanities/Fine Arts;
2. Modern Languages;
3. Sciences/Mathematics;
4. Social Sciences.
Marketing Communication Majors may choose from the four divisions but must exclude courses from journalism and speech communications and theatre arts departments.

**Electives 3-22 cr. hrs.**
As needed to achieve a total of 120 credits. A maximum of 12 credits may be taken in the department of the major; all other credits must be outside the department of the major.

**Diversity Requirement**
A three-credit course which may be double-counted toward any requirement or may be applied toward electives.

**TOTAL 120 cr. hrs.**

**Liberal Arts Courses**
These courses meet the Liberal Arts requirements prescribed in the preceding degree programs. They are taken from this catalog only. For courses listed in previous catalogs or those approved subsequent to this catalog, check with the Dean, College of Arts and Sciences.

**Humanities Division**

**Modern Language Division**
All Modern Language courses except: FREN 350, GERM 350, SPAN 350; COMD 469.

**Natural Sciences and Mathematics Division**
*may not count both Geography 316 and Geology 269.
Students may substitute advanced courses in sciences and mathematics within the distribution requirement by petition of the department and with approval of the Dean, College of Arts and Sciences.

**Social and Behavioral Sciences Division**
General Education Plan

A. Communication 9 cr. hrs.
  1. Speech 3
     Select from: SCTA 101, 116 or 211
     Students may satisfy the requirement by demonstrated
     proficiency in speech.
  2. Composition 6
     ENGL 111, 112
     Students who show acceptable proficiency in writing are permitted to register for ENGL 112 to complete the
     composition requirement with three credits rather than six credits.

B. Humanities and Fine Arts 8-9 cr. hrs.
   Humanities 255 Arts and Ideas I and Humanities 256
   Arts and Ideas II may be substituted for any courses
   in the Humanities and Fine Arts area.
   1. Literature 3
      Select from: ENGL 241, 242, 243, 244, 245–only
      one of the 240 series literature courses may be
      counted toward graduation.
   2. Fine Arts 3
      Select from: ART 100, 211, 212; MUS 100, 200,
      234, 235; DANC 100; SCTA 105, 337, 338, 339
   3. Other 2-3
      Select from: ENGL 203, 206, 207, 212, 214, 222,
      231, 232, 233, 234, 235, 300, 443; HIST 101, 201,
      (if chosen for B, may not be counted in C);
      MODL 102, 201, 202, 301; PHIL 151, 221, 222, 223,
      224, 230, 235, 240, 245, 265;
      POLS 230 (if chosen for B, may not be counted in C); Interdisciplinary Capstone/Hum.-Fine Arts 498 2
      Option - Credits for the capstone course are applied (double counted) here from E below; the course is taken instead of
      a course in the “other” group of Division B.

C. Social and Behavioral Sciences 8-9 cr. hrs.
   Students must take one course in any three of the following areas:
   ANTH 100; ECON 100; GEOG 120 (if chosen for C, GEOG 110 may not be counted in D); HIST 102, 103, 104, 202
   (if chosen for C, may not be counted in B); POLS 114, 260 (if chosen for C, may not be counted in B); PSYC 101;
   ESM 105; SOCI 100, SOWK 150
   Interdisciplinary Capstone/Soc. Sci. 496 2
   Option - Credits for the capstone course are applied here (double counted) from E below; the course is taken instead of
   a third course in Division C.

D. Sciences 8-9 cr. hrs.
   Students must take courses from three basic sciences or two basic sciences and Science 497. At least one course must
   have a significant laboratory component.
   Courses which include a required laboratory are listed under the heading LAB INCLUDED. Courses for which there is
   an optional laboratory course are listed under the heading LAB NOT INCLUDED, BUT OPTIONAL. Courses which
   have no laboratory are listed under the heading NO LAB.
   LAB INCLUDED
   BIOL 100 or 150; CHEM 100; CHEM 101;
   CHEM 121; PHYS 114
LAB NOT INCLUDED, BUT OPTIONAL
Without the optional lab, these courses count as NO LAB General Education science courses.
GEOG 110 (optional lab: GEOG 111) (if chosen for D, GEOG 120 may not be counted in C); GEOL 101 (optional lab: GEOL 102); PHYS 151 (optional lab: PHYS 156); PHYS 161 (optional lab: PHYS 101)
NO LAB
PHYS 117, Interdisciplinary Capstone - Science 497 - 2 cr.
Option - Credits for the capstone course are applied here (double counted) from E below; the course is taken instead of a third course in Division D.

E. Senior Level Interdisciplinary
Capstone Course 2-4 cr. hrs.
At least one course of two credits is required and must be counted toward General Education, but students may elect to take a second course. Credits for both courses will apply (be double counted) to fulfill the 8-9 credit requirement in the appropriate areas B, C, or D above. The second course may be applied instead to the appropriate liberal arts group but may not be counted toward both General Education and Liberal Arts requirements. In Area B, the credits must be applied to the “other” category.

F. Mathematics 3 cr. hrs.
Students may satisfy this requirement in one of the following ways:
a. Demonstrated proficiency by high school course work, designated ACT score, and designated score on the UW-System Math department test. (In this case, no credit will be awarded. A student will be free of this requirement.) See page 198 for proficiency standards testing requirements.
b. MATH 126 or a higher numbered Math course (except MATH 246 or 247) or PSYC 201 or ECON 205.

G. Physical Education 2 cr. hrs.
P ED 108 Lifetime activity courses (choose two courses)

TOTAL 39 cr. hrs.
Assumes completion of 8 credits in each of two areas from B, C and D and 9 credits in the third along with completion of the other requirements. If the English and mathematics requirements are satisfied by demonstrated proficiency, the total number of credits is reduced accordingly.

In meeting the objectives of the General Education program at UW-RF, a student shall take a writing-intensive course to be specified by the major department. This policy does not replace a requirement for general education courses to contain writing components. This objective can be fulfilled by a course within major or another area with a substantial writing component.

See page 12 for diversity requirement.

Options in the Liberal Arts Degrees
To provide flexibility for programs in the Bachelor of Science degree, students are provided the following options:

Option A - Standard Option
A departmental major (usually 34-36 hours) and a departmental minor (usually 21-24 hours) or a broad field major (usually 56-60 hours).

Option B - Individualized Interdisciplinary Option
A special program of studies intelligently arranged around the particular academic and professional needs of the student. It generally consists of the core of a major along with an interdepartmental grouping of courses in a minor reflecting a career/learning focus for a minimum total of 60 credit hours. Designed in consultation with the student’s advisor before beginning the junior year, it must be submitted to and approved by the Dean of the College of Arts and Sciences at that time. The proposed program is accompanied by a letter from the student justifying the purposes of the
program in relation to the student’s needs and a letter of validation from the advisor.

**Option C - Professional Option**

A broad program of studies basic to later professional work. A student transferring at the conclusion of the junior year to a professional school may have a part of the work in the professional school applied toward the senior year for the bachelor’s degree. Details must be worked out by the student and the advisor and approved by the Dean of the College of Arts and Sciences before the junior year. A Dual Degree-Physics, Chemistry and Engineering is available (see page 27).

**Internships in the College of Arts And Sciences**

The Internship Program offers the student a number of opportunities for earning credit in work and training off campus and on campus. This internship is open to those students who have completed at least 60 credits of course work.

Internships may be arranged for up to 12 undergraduate credits in the student’s major or minor field, depending upon departmental allowances. Credits may be earned all in one semester or summer, but in no more than two academic terms, two credits being the minimum for any one internship; some departments have a higher credit minimum. The internship courses are numbered 379.

A sophomore level internship course, numbered 279, is also offered by many departments. These internships are identified as “introductory professional work experiences.”

The fee schedule for the interning student will be the same as the fee schedule for an on-campus student. Each department, with the approval of the Dean of the College, will decide the appropriate number of hours for each internship, according to the level of work experience in relation to upper division courses, the extent of work involved and the relationship of the work to professional academic pursuits. Individual departments will determine if internship programs can substitute for required courses in the major or minor field. A minimum number of 45 work experience hours per week for the semester is required for 12 credits.

Internship proposals may be initiated by the student, the major or minor department or off-campus agencies. Planning with the academic advisor for an internship should precede the semester in which the proposal is submitted. Some applications for an internship should be submitted to the department chair for approval while other applications should be submitted to the dean of the college for approval at least six weeks prior to the intended start of the internship, after its first having been processed and approved by the faculty advisor and department chairperson. Students must register for the internship credits during the semester the internship is conducted in order to receive credit. The work supervisor and faculty advisor will evaluate the student’s experience. The department will require additional evaluation, the methods to be worked out between the student and his/her faculty advisor within the guidelines of the college. A summary written by the student is submitted to the dean along with the two evaluations prior to the submission of a grade.

**Independent Study and Directed Readings**

In accordance with university policy, the College of Arts and Sciences offers independent study through most departments. Additionally, most departments offer courses in directed readings. Independent Study (numbered 499) is defined as an individually designed topic or course of study or unstructured research to meet the needs of a student. Directed Readings (numbered 490) is a course that is generally prescribed as to its content, materials and activities; it may be used to instruct students in the materials of a given course when that course is taken out of sequence or individually, but under the direction of an instructor.

Students will be limited to nine credit hours of independent study course work and nine credit hours of directed readings but with a combined maximum of 12 credit hours within the 120 credit degree program. Individual departmental courses of study may allow fewer such credits than this maximum for their majors or minors. From one to three credits may be taken in each of these courses in a given semester, depending upon departmental requirements and availability.
Students should plan for such courses with their major advisor. Application for independent study or directed readings must be processed through the department chairperson for approval of the course proposal and assignment of a faculty adviser.

**Interdepartmental Offerings**

Interdepartmental courses are typically identified by and listed in the departments which offer them, such as, BIOL/CHEM 343 - Microtechniques and Electron Microscopy or ENGL/GEOG/HIST 385 - Interdisciplinary Seminar on the American Frontier. Listed below are interdepartmental majors, minors and programs.

**Bio-Medical Research**

Students interested in careers in bio-medical research are advised to take a broad area science major, choosing options within the major to become as broadly and professionally prepared as possible. A suggested program sheet is available in the Biology Department.

Biotechnology Major, see page 45.

Environmental Science Major, see pages 63.

Ethnic Studies Minor, see page 64.

Film Studies Minor, see page 65.

**Humanities**

Humanities courses focus on art, music and literature as representative of the ideas and cultural values of a historical period. These interdisciplinary courses integrate the study of the arts, emphasizing correlations among them. Frequently, field trips to museums, concerts and theaters are included. See the course listing for Humanities.

International Studies Minor, see page 75.

International Study Abroad Programs, see page 14.

Marketing Communications Major, see page 80.

Musical Theatre Minor, see page 85.

Professional Writing Minor, see page 91.

**Religion, The Academic Study of**

The rulings of the Attorney General of the state of Wisconsin have made it clear that the academic study of religions is not only appropriate but also germane to the tasks of a university, provided only that the study proceeds from concerns which neither advance nor oppose the sectarian practice of religion, but rather attempt to understand religion within the context of the secular world. Within the established departments of this university there are numerous courses offered which fit two classifications:

1) those courses whose main intent or one of whose main intentions is oriented to the study of religion;
2) those courses whose orientation is not specifically directed towards the study of religion, but which have a content that can be broadly interpreted as related. We list here both types of courses for whatever informational benefit such a listing can have for the student with such an interest.

**TYPE I “Oriented”**

HIST 321 The Middle Ages
HIST 323 The Reformation
PHIL 232 Biblical and Philosophical Approaches to Contemporary Problems
PHIL 245 Islam and Oriental Religions in the USA
PHIL 265 God, Religion, Science and the Meaning of Life
SOCI 227 Religious Groups and Cults
TYPE II “Related”
ART 211 Art History to 1500
ART 212 Art History Since 1500
ENGL 237 Introduction to Greek Mythology
HIST 101 Origins of Western Civilization
HIST 322 The Renaissance
HIST 324 Absolutism, Enlightenment and Revolution
HIST/PHIL 415 Philosophy of History
HUM 255 Arts and Ideas I
HUM 256 Arts and Ideas II
PHIL 221 Ancient Philosophy
PHIL 222 Hellenistic and Medieval Philosophy
PHIL 223 Science and the Philosophers of the Age of Enlightenment
PHIL 224 Existentialism and Late Modern Philosophy

Science
Broad Field Science Major (Liberal Arts)
Broad Field Science Major (Education)
Broad Field Science Major (Physical Science)
Minor in General Science (Education)
These broad field science majors and minor are programs of study comprised of the science disciplines: biology, chemistry, geology and physics. For information about these majors and their application toward certification see the program listing for Science, Broad Field.

Social Science Minor (Education), see page 96.

Social Studies, Broad Field Major, see page 96.

Women’s Studies Minor, see page 104.
Pre-professional Curricula Leading to a Degree


Three-year programs leading to a degree have been designed under Option C for the B.S. degree in the College of Arts and Sciences. See page 23 of the printed catalog.

These programs leading to a degree are available in such fields as engineering, law, medicine, optometry, and pre-veterinary medicine. Details must be worked out by the student and the advisor and approved by the Dean of the College of Arts and Sciences in advance.

The following programs are designed for students who will transfer to professional schools and colleges. These are suggested curricula only. Since the pre-professional requirements vary, students and their advisors must study the catalog of the institution to which they wish to transfer and make the necessary course adjustments in the suggested programs. By careful selection of pre professional and general education courses, a three-year student may be able to take advantage of Option C for a bachelor’s degree in the College of Arts and Sciences. If Option C is chosen, the program must include completion of General Education requirements.

Please note that many professional schools and colleges are now requiring a bachelor’s degree for admission and are becoming graduate schools only.

The names of the advisers for the various pre-professional programs may be obtained by contacting the Office of the Dean of Arts and Sciences, 136 Fine Arts, (715) 425-3366.

Pre-Engineering

General Program (see adviser for specialties)

The first two years of any engineering curriculum are mainly math and physics. In addition, UW-River Falls offers several special courses for engineering. Thus a student will have no problem transferring to an engineering school as a junior after taking the first two years at River Falls.

It should be emphasized, however, that there are slightly different requirements for different engineering specialties and schools so a student should contact the pre-engineering advisor in the Physics Department as soon as possible.

A. General Education 15 cr. hrs.
ENGL 111, 112 6
ECON 201, 202 6
SCTA 101 3

B. Math, Physics and Chemistry 40 cr. hrs.
MATH 166, 167, 256, 266, 331 17
PHYS 211 3
PHYS 101, 102, 161, 162 10
CHEM 121, 122 10

C. Technical electives 6-10 cr. hrs.
(Choices depend upon final major)
PHYS 250, 252, 254, 264, 361, 362
MATH/CPTS 326, 346
CHEM 231, 232, 246, 247
BIOL 150
GENG 121, 265
GEOL 101, 102

TOTAL 65-69 cr. hrs.

Dual Degree in Physics, Chemistry and Engineering
The Dual Degree is a special three-year program at UW-River Falls which, upon successful completion, guarantees entry into the Engineering programs at the University of Minnesota or the University of Wisconsin-Madison to complete the rest of the program in approximately two years. At the end of the entire program, students are awarded an engineering bachelor’s degree from the Engineering school and a B.S. from UW-River Falls. These programs are administered by the Physics and Chemistry Departments.

A. General Education 39 cr. hrs.
ENGL 111, 112; SCTA 101; ENGL 241-245
Fine Arts (3); Diversity (3) ECON 201; ISSC 496; CHEM 121
PHYS 161, 101; MATH 166; P ED 108

B. Math, Physics and Chemistry 26 cr. hrs.
MATH 167, 256, 266, 331
PHYS 102, 162, 211
CHEM 122

C. Directed electives 22-25 cr. hrs.

D. Engineering Courses 30 cr. hrs.
transferred back to UW-RF
TOTAL 117-120 cr. hrs.

Pre-Law

According to the Association of American Law Schools, preparation for entry into law school calls for 1) the development of basic skills, particularly in the use of language; 2) a strenuous effort to improve one’s capacity for critical thinking; and 3) the acquiring of a broad liberal arts background. The skill most basic to success both as an undergraduate student and as a law school student is the ability to competently use the English language in both written and oral form. In addition the student needs to be concerned with developing the capacity to think logically and to critically evaluate the knowledge gained through their courses of study. A pre-law program is relatively flexible and does not call for a particular major field or specific list of courses beyond those required by the University for the undergraduate degree. Students with law in mind should think of their pre-law studies as preparation toward a goal rather than a prescribed set of courses.

The pre-law adviser’s office (political science department) is available to all students on the UW-River Falls campus who have questions regarding law school. The advisor works closely with those who do choose to apply to law school, to make sure that all the necessary materials are readily available to them and that they understand the application process.

Pre-Medical

It is recommended that students planning to enter medical school complete requirements with a major in either biology or chemistry. Virtually every candidate accepted to medical school holds the baccalaureate degree. A pre-medical advisor should be consulted for requirements for specific medical schools. Although the minimal requirements may be fewer than listed, the following are the required and the highly recommended courses:

A. General Education 9 cr. hrs.
ENGL 111, 112 6
SCTA 101 3

B. Science and Math 77 cr. hrs.
MATH 146, 147, 166 10
PHYS 151, 152, 156, 157 10
BIOL 150, 230, 240, 340 12
CHEM 121, 122, 231, 232, 236, 237, 251, 256, 340, 361 28

C. Behavioral Sciences 3 cr. hrs.
PSYC 101 3
TOTAL 89 cr. hrs.

D. Electives
Recommended elected courses are: BIOL 235, 324, 353 and 464; HEAL 263 and 364. Add to these a variable number of credits selected to meet requirements of specific medical schools (for example, the University of Minnesota requires two semesters of English literature) and/or to fulfill academic major and minor requirements for a degree.

Pre-Optometry

Most professional schools of optometry require up to 90 credits in a pre-professional program prior to admission. A few schools require or recommend a bachelor's degree before admission. Virtually all schools require the applicant to sit for the Optometry College Admission Test (OCAT). Not all schools will require the following courses or some schools may require other courses that are not listed; check closely with adviser.

BIOL 150, 230, 324, 340 14 cr. hrs.
CHEM 121, 122, 231, 232, 236, 237 18 cr. hrs.
PHYS 151, 152, 156, 157 10 cr. hrs.
MATH 146, 147, 166, 167 14 cr. hrs.
ENGL 111, 112 6 cr. hrs.
PSYC 101 + directed electives 8 cr. hrs.
HIST 3 cr. hrs.
SOCI 100 3 cr. hrs.
Human Anatomy and Anatomy/Physiology 6 cr. hrs.
Introduction to Business 3 cr. hrs.
Basic Accounting 3 cr. hrs.
Directed Electives 2+ cr. hrs

Pre-Pharmacy

A. General Education 9 cr. hrs.
ENGL 111, 112 6
SCTA 101 3

B. Science and Math 42 cr. hrs.
BIOL 150 3
BIOL 230 or 235, 324 3-6
CHEM 121, 122 10
CHEM 231, 232, 236, 237 8
MATH 166, 167 8
(Students may need to take MATH 146, 147 (or 149) before taking MATH 166,167)
PHYS 151, 152, 156, 157 10

C. Social Science 9 cr. hrs.
ECON 201 3
SOCI 100 3
PSYC 101 3

D. Directed electives 3 cr. hrs.
Depending upon the choice of a pharmacy school, selected courses in the humanities are recommended.
TOTAL 63-66 cr. hrs.

Pre-Veterinary Medicine

The program shown exceeds the minimum requirements for admission to some veterinary colleges, including UW-Madison and the University of Minnesota. Based on the experiences of its many successful pre-veterinary students, the university recommends that students complete the full program in order to be better prepared for veterinary school.

A. General Education 15 cr. hrs.
ENGL 111, 112 or 112H 6
SCTA 101 or 116 3
Electives selected from art, literature, music and theatre 6

**B. Science and Math 63-69 cr. hrs.**
MATH 146, 147 4-10
ANSC 341 Biometrics 3
or MATH 216 Elementary Statistical Concepts
BIOL 150, 230, 240, 324, 350 (ANSC 257 will substitute for BIOL 350) 16
CHEM 121 (or 110), 122, 231, 232, 236, 237, 361 21
PHYS 151, 152, 156, 157 10
ANSC 111, 121, 231, 345 6-10

**C. Social and Behavioral Sciences 6 cr. hrs.**
Select from Anthropology, Economics, Environmental Studies, Geography, History, Political Science, Psychology, or Sociology

**D. Electives**
Variable number of credits selected to meet requirements of specific veterinary colleges and/or to fulfill academic major and minor requirements for a degree.
**TOTAL 84-90 cr. hrs.**

**3+1 Degree in Animal Science**

For students in the Pre-Veterinary Medicine program.
The 3+1 program is designed for Pre-Veterinary students who are accepted into Veterinary School prior to completing their BS degree in Animal Science. Students can complete three years (95-96 credits) at UW-River Falls and after successful completion of their first year of veterinary school, they may be able to obtain an Animal Science degree from UW-River Falls.

**A. General Education 21 cr. hrs.**
ENGL 111, 112 or 112H 6
SCTA 101 or 116 3
Humanities and Fine Arts: select electives from art, music, dance theatre, literature, etc. 6
Social and Behavioral Sciences: select from Anthropology, Economics, Environmental Studies, Geography, History, Political Science, Psychology, or Sociology 6

**B. Science and Math 68-69 cr. hrs.**
MATH 146, 147 6
BIOL 150, 230 or 240, 324 10
CHEM 121 (or 110), 122, 231, 232, 236, 237, 361 21
PHYS 151, 152, 156, 157 10
ANSC 111, 231, 257, 260, 345 15
ANSC 167 and 168 or ANSC Production Course 3-4
ANSC 341 Biometrics 3

**C. Other Requirements 8 cr. hrs.**
AGEC 230 Agricultural Economics I 3
A diversity course (may be in Gen Ed) 3
PE 108 Physical Education 1
Physical Education Activity Classes (2 x .5) 1
**Total Credits 95-96 cr. hrs.**

See page 12 for a list of courses that fulfill the diversity requirement.
The College of Business and Economics consists of programs in accounting, computer science/information systems, economics, finance, management, marketing, and management information systems. The college allows students to combine a high quality professional program with a solid liberal arts foundation. The vision of the College of Business and Economics is to be the regional leader in the acquisition, application, and transfer of business and economic knowledge. Consistent with this vision, the college has set a goal to attain accreditation of its programs by the Association to Advance Collegiate Schools of Business (AACSB International) and is currently in the accreditation candidacy process.

The faculty of the CBE are professionals dedicated to being quality teachers, accessible to students; furthering knowledge through scholarship, and serving as valuable resources to the university and community.

In the College of Business and Economics, the University of Wisconsin-River Falls offers the Bachelor of Science degree. Majors and options offered within the various departments of the College of Business and Economics include:

**Accounting**
- Business Administration
- Broad Area Business Administration
- Marketing Option
- Finance Option
- Management Option
- Management Information Systems (pending approval)

**Computer Science and Information Systems**
- Computer Science
- Information Systems

**Economics**

**Marketing Communications**

**Minors offered include:**
- Business Administration
- Economics
- Computer Science and Information Systems
- Computer Science
- Information Systems
- Management Information Systems

**Admission Standards for all majors in the CBE:**

Completion of at least 32 required general education credits with a minimum GPA of 2.25. Additionally, the following must be completed, or in progress for completion, during the semester preceding admission. Students may register prior to acceptance, but acceptance is required for attendance in CBE upper-level courses. Students with GPAs between 2.0 and 2.25 may petition to the respective department chair for consideration on a case-by-case basis.

**For admission to accounting and business majors:**

GPA of 2.25 in ACCT 231, 232; ECON 201,202; CSIS 215; ECON 205 or MATH 156 or MATH 166; ECON or MATH 226; SCTA 116 or ENGL 266.
For admission to the CSIS major:
GPA of 2.25 in CSIS 161, 162, and 237

For admission to the Economics major:
GPA of 2.25 in ECON 201, 202, 205; ENGL 111, 112.

Internships

Internships are an important part of the programs in the College of Business and Economics. They provide an important opportunity for students to blend their academic experience with a supervised work experience. Internships can be taken for 3 credits in the major; internships cannot be included in a minor. Students work with the college’s internship offices to build a work experience that best meets the academic needs and interests of the student. Interns regularly report on their activities to the college’s internship supervisors.

Degree Requirements

To obtain a degree in the College of Business and Economics students must acquire a minimum of 120 semester hours. In order to complete a degree in four years, students need to take approximately 15 appropriate credits per semester. Students are encouraged to use advanced placement credits and transfer credits to provide flexibility in their programs and to expand their educational backgrounds. The Admissions Office, the College of Business and Economics student advisor, and faculty advisers will assist students to maximize their educational opportunities in an efficient manner.

The College of Business and Economics degree consists of the following components:

General Education Requirements

A. Communication 9 cr. hrs.
   1. Speech 3 cr.
      Select from: SCTA 101, 116 or 211
      Students may satisfy the requirement by demonstrated proficiency in speech.
   2. Composition 6 cr.
      ENGL 111, 112
      Students who show acceptable proficiency in writing based on the ENGL placement test may take only the three-credit accelerated course in composition in lieu of these six credits.

B. Humanities and Fine Arts 8-9 cr. hrs.
   Humanities 255 Arts and Ideas I and Humanities 256 Arts and Ideas II may be substituted for any courses in the Humanities and Fine Arts area.
   
   1. Literature 3 cr.
      Select from: ENGL 241, 242, 243, 244, 245--only one of the 240 series literature courses may be counted toward graduation.
   
   2. Fine Arts 3 cr.
      Select from: ART 100, 211, 212; MUS 100, 200,
3. Other 2-3 cr.
Select from: ENGL 203, 206, 207, 212, 214, 222, 231, 232, 233, 234, 235, 300, 443; HIST101, 201, (if chosen for B, may not be counted in C); MODL 102, 201, 202, 301; PHIL 151, 221, 222, 223, 224, 230, 235, 240, 245, 265; POLS 230 (if chosen for B, may not be counted in C);

Interdisciplinary Capstone/Hum.-Fine Arts 498 2 cr.
Option- Credits for the capstone course are applied (double counted) here from E below; the course is taken instead of a course in the “other” group of Division B.

C. Social and Behavioral Sciences 8-9 cr. hrs.
Students must take one course in any three of the following areas:
ANTH 100; ECON 100; GEOG 120 (if chosen for C, GEOG 110 may not be counted in D); HIST 102, 103, 104, 145, 160 (if chosen for C, may not be counted in B); POLS 114, 260 (if chosen for C, may not be counted in B); PSYC 101; ESM 105; SOCI 100, SOWK 150
Interdisciplinary Capstone/Soc. Sci. 496 - 2 cr.
Option - Credits for the capstone course are applied here (double counted) from E below; the course is taken instead of a third course in Division C.

D. Sciences 8-9 cr. hrs.
Students must take courses from three basic sciences or two basic sciences and Science 497. At least one course must have a significant laboratory component.
Courses which include a required laboratory are listed under the heading LAB INCLUDED. Courses for which there is an optional laboratory course are listed under the heading LAB NOT INCLUDED, BUT OPTIONAL. Courses which have no laboratory are listed under the heading NO LAB.
LAB INCLUDED
BIOL 100 or 150; CHEM 100; CHEM 101; CHEM 121; PHYS 114
LAB NOT INCLUDED, BUT OPTIONAL
Without the optional lab, these courses count as NO LAB
General Education science courses.
GEOG 110 (optional lab: GEOG 111)
(if chosen for D, GEOG 120 may not be counted in C)
GEOL 101 (optional lab: GEOL 102)
PHYS 151 (optional lab: PHYS 156)
PHYS 161 (optional lab: PHYS 101)
NO LAB
PHYS 117, Interdisciplinary Capstone - Science 497 - 2 cr.
Option - Credits for the capstone course are applied here (double counted) from E below; the course is taken instead of a third course in Division D.

E. Senior Level Interdisciplinary Capstone Course 2-4 cr. hrs.
At least one course of two credits is required and must be counted toward General Education, but students may elect to take a second course. Credits for both courses will apply (be double counted) to fulfill the 8-9 credit requirement in the appropriate areas B, C, or D above. The second course may be applied instead to the appropriate liberal arts group but may not be counted toward both General Education and Liberal Arts requirements. In Area B, the credits must be applied to the “other” category.

F. Mathematics 3 cr. hrs.
This will be met by completing the specific mathematics requirements for majors in CBE.
G. Physical Education 2 cr. hrs.
P ED 108
Lifetime activity courses (choose two courses)

TOTAL 39 cr. hrs.

Assumes completion of 8 credits in each of two areas from B, C and D and 9 credits in the third along with completion of the other requirements. If the English and mathematics requirements are satisfied by demonstrated proficiency, the total number of credits is reduced accordingly.

In meeting the objectives of the General Education program at UW-RF, a student shall take a writing-intensive course to be specified by the major department. This policy does not replace a requirement for general education courses to contain writing components. This objective can be fulfilled by a course within major or another area with a substantial writing component.

Major

All students earning a major within the College of Business and Economics must complete at least half of their 120 credits required for graduation outside the college. In addition, they must complete at least 50 percent of the business credits in the College of Business and Economics at UW-River Falls.

Students majoring in Economics have the choice of graduating from the College of Business and Economics or from the College of Arts and Sciences. Students who graduate from the College of Arts and Sciences must meet that college’s requirements.

Minor

In addition to the standard minors listed (Option A), College of Business and Economics students can design their own minors to meet their individual educational and career goals (Option B). An Option B minor is a special program of studies arranged around the particular academic and professional needs of the student. It consists of a core of courses from a major along with a grouping of other courses to meet the particular need. The program has a minimum of 60 credits with a minimum of 36 credits designated as the major and 24 as a minor. The program of study is designed by the student in consultation with the advisor and must be approved by the adviser and Dean of the College of Business and Economics.

All students are required to take a diversity course. This course can be double counted in various ways. See page 12 of the printed catalog for the list of diversity courses.

Electives as required to reach a minimum total of 120 credits.

Language Recommendation: Students entering with foreign language skills are encouraged to test into the 200/300 level language classes and continue to maintain their language skills.

The curriculum for each major, option, and minor is included under the listing for that major, option, or minor.
College of Education and Professional Studies

Wyman Education Building
(715) 425-3774; FAX (715) 425-0622
www.uwrf.edu/college-of-education

Departments within the College of Education and Professional Studies include: Health and Human Performance, Teacher Education, Counseling and School Psychology, Communicative Disorders, and the Social Work program.

The college prepares undergraduates for professional careers in teaching, social work, and communicative disorders. Teacher education has been a major commitment of the University of Wisconsin-River Falls since its founding in 1874. The university’s teacher education programs have received national recognition for excellence and are accredited by the National Council for the Accreditation of Teacher Education, North Central Association and the Wisconsin Department of Public Instruction.

The Bachelor of Science degree is granted after successful completion of programs in elementary education and middle/secondary education.

Teacher education students are required to complete a comprehensive program of study in general education, a rigorous series of field-based professional education courses and experiences, and extensive academic study in the areas of certification. Professional education course work and experiences are field-based, requiring numerous laboratory and school-site experiences that apply classroom content. Professional organizations within the college offer students opportunities to become actively involved in the education profession.

A teaching license in communicative disorders requires a master’s degree. Wisconsin and Minnesota require a terminal degree for licensure as a speech pathologist. For more information on the Master’s Degree in Communicative Disorders please contact the office of graduate studies or the communicative disorders department.

UW-RF offers students a Bachelor of Social Work degree (BSW - a major in social work). At the undergraduate level, this liberal arts course of study prepares a student for beginning, generalist, professional practice. The program is accredited by the Council on Social Work Education (CSWE), the nationally recognized accrediting organization in social work. Social work is the professional activity of helping individuals, groups, or communities enhance or restore their capacity for social functioning and creating societal conditions favorable to that goal. In general, social work is planned, purposeful intervention, based on professional knowledge, values, and skill that is aimed at both individual and social change. Social workers seek to strengthen and improve the capability of people and systems to cope with the task and problems they face in life and to promote improvements in the social environment which will enable human needs to be more adequately met.

General Education Requirements

General Education Requirements 51 Total Credits

1. Communications 9 cr. hrs.
   a. Speech Communication (choose from the following): 3 cr/
      SCTA 101 Fundamentals of Oral Communication
      SCTA 116 Business and Professional communication
      SCTA 211 Public Speaking
   b. English Composition: 6 cr.
      ENGL 111 Academic Reading and Writing
      ENGL 112 Persuasive Reading and Writing
      Students who show acceptable proficiency in writing may take a three-credit accelerated course in composition (ENGL 115) in lieu of these six credits.

2. Humanities and Fine Arts: 9-12 cr. hrs.
a. Choose one English literature course from: 3 cr.
ENGL 241 Human Issues in Literature
ENGL 242 The Heroic Figure in Literature
ENGL 243 Types of Literature
ENGL 244 The Modern Tradition in Literature
ENGL 245 Western World Literature

b. Fine Arts 3 cr.
Elementary Education choose from:
ART 100 Introduction to Art
MUS 100 Understanding Music

Secondary Education choose from:
ART 100 Introduction to Art
ART 211 Ancient, Classical and Medieval Art
ART 212 Renaissance to Modern Art
DANC 100 History/Appreciation of Dance
MUS 100 Understanding Music
MUS 200 American Music
MUS 235 Music History and Literature I
MUS 300 World Music
SCTA 105 Introduction to Theatre and Drama
SCTA 337 History of Theatre and Dramatic Literature: Ancient Traditions through Renaissance Drama
SCTA 338 History of Theatre and Dramatic Literature: 18th Century to the Present
SCTA 339 American Theatre

c. Choose one Non-Western History/Culture course from the following: 3 cr.
HIST 201 Introduction to Asian Civilization
HIST 202 Introduction to Latin American Civilizations
HIST 206 Native Americans and the United States
HIST 207 African American History
PHIL 245 Oriental and Islamic Religions in the U.S.
GEOG 120 Human Geography

POLS 114 American National, State and Local Government 3 cr.
PSYC 101 General Psychology 3 cr.
TED 252 Foundations of Multicultural Education 3 cr.

Elementary Education (choose two): 6 cr.
CHEM 101 Elementary Principles of Chemistry
BIOL 100 Introduction to Biology
GEOL 101 Introductory Geology
PHYS 114 Basic Physics
PHYS 117 Introductory Astronomy

Elementary Education Environmental Education 3 cr. hrs.
(choose one):
GEOG 300 Environmental Education
ESM 300 Environmental Education

Secondary Education: 9 cr. hrs.
(requirements vary by major)

Choose one of the following: 3 cr.
BIOL 100 Introduction to Biology
GEOG 300 Environmental Education
ESM 300 Environmental Education

Choose one of the following: 3-4 cr.
PHYS 114 Basic Physics
PHYS 151 General Physics
PHYS 161 General Physics  
PHYS 117 Introductory Astronomy  
Choose one of the following: 3 cr.  
CHEM 100 Modern Alchemy  
CHEM 101 Elementary Principles of Chemistry  
CHEM 111 General Chemistry I  
GEOL 101 Introductory Geology  
GEOG 110 Physical Environment: Patterns and Systems  

5. Senior Capstone Course: 2 cr. hrs.  
Choose one of the following three:  
ISSC 496 Social Science  
ISCI 497 Science  
IHUM 498 Humanities  

6. Mathematics: 3-8 cr. hrs.  
Elementary Education:  
MATH 246 Math for Elementary Teachers I 4 cr.  
MATH 247 Math for Elementary Teachers II 4 cr.  
Secondary Education:  
MATH 126, higher level math, or testout 3 cr.  

7. Physical Education: 2-3 cr. hrs.  
P ED 108 Health and Fitness for Life 1 cr.  
Two Lifetime Activities courses 1-2 cr.  

Additional Requirements  
Early Childhood, see page 57.  
Professional Education Elementary Education, see page 58.  
Professional Education Secondary Education, see page 95.  

Admission to Teacher Education  
Application for admission to teacher education is made through the Dean of the College of Education and Professional Studies. Students should begin the admission to teacher education process when they have completed 40 semester credits of course work. Students in the Middle/Secondary Education program must be admitted to teacher education before they are permitted to enroll in the following methods courses: TED 420, 422, 423 and the appropriate methods course(s) in the major(s) and/or minor(s) TED 429-441. For students in the elementary education program, admission to teacher education is a prerequisite for enrollment in the following Block I courses: TED 310, 311, 312. Students majoring in agricultural education apply for admission to teacher education through the department of agricultural education.  

Admission to teacher education is based on requirements of the Wisconsin Department of Public Instruction and the College of Education and Professional Studies. Current information is available in the student handbooks and list of dates at the college website: www.uwrf.edu/college-of-education/. Students are responsible for checking the website for the information they will need.  

A student may be denied admission to teacher education program on the basis of either a low grade point average (GPA) or inadequate scores on any one subsection of the Pre-Professional Skills Test (PPST/PRAXIS I) or the Computer-Based Academic Skills Assessments (CBT). In addition, a student may be denied admission to the teacher education program based on faculty assessment of the applicant’s capacity to carry out requisite responsibilities of beginning teachers and to successfully complete the requirements of a professional teacher education program.  

Appeal Procedures For Admission to Teacher Education  
A student who is denied admission to teacher education may begin the appeal process by making an appointment with his or her advisor. The appeal process can only be initiated after the student has received notification from the dean’s
office denying admission. A student and/or faculty member, who may serve as an advocate for the student, can initiate the teacher education appeals process.

Detailed information on the appeals process can be found in the student handbooks at the college website: www.uwrf.edu/college-of-education/. Students are responsible for checking the website for the information they will need.

Admission to Student Teaching or Interning

Admission to student teaching or interning is based on requirements of the Wisconsin Department of Public Instruction and the College of Education and Professional Studies. Current information is available in the Student Handbooks and list of dates at the college website: www.uwrf.edu/college-of-education/. Students are responsible for checking the website for the information they will need.

Conditions for Retention in Teacher Education Programs

If authorized personnel at the university have reasonable cause to question whether a student’s physical or mental health will permit successful completion of the requirements of a professional program in the College of Education and Professional Studies, the department involved may, as a condition of admission to, continuation in, or graduation from the program, require that the student be evaluated by appropriate professional personnel to help determine whether admission, continuation, or graduation should be permitted. A student may be notified at any time that termination from a program is being considered. At that time, the student or faculty advocate may initiate an appeal for consideration through the College of Education and Professional Studies Dean’s Office.

Teacher Certification

All students who wish to become certified to teach in the state of Wisconsin must complete the following steps before an application form is submitted to the Wisconsin Department of Public Instruction:
1. Graduate and complete a teacher education program at this university with a grade point average of 2.75 overall in all previous course work.
2. Fill out an application form (PI-1602) available at the Dean of Education and Professional Studies Office.
3. Submit the application form to the Dean of Education and Professional Studies Office with a check for the appropriate fee made payable to the Wisconsin Department of Public Instruction.

Students who seek teacher certification in states other than Wisconsin should visit the college website at www.uwrf.edu/college-of-education/.

Admission to Social Work

Admission to the BSW Program is competitive, and students holding an accredited BSW may receive recognition by accredited graduate schools of Social Work, leading to advanced standing toward a Master’s of Social Work degree (MSW), the terminal practice degree in the profession. State licensing boards in Social Work recognize the BSW as meeting requirements to sit for licensure examinations.

Social Work is an active “doing” profession with a long history of caring for persons, and social change. Social workers are involved in wide-ranging tasks in many different public and private agencies. Some of the kinds of places social workers can be found include: child and adult protective services, counseling and mental health centers, probation and parole, neighborhood and community organizations, schools, employee assistance programs, labor unions, hospital and long term care facilities. Social Workers can be found almost any place where people and organizations come together.

BSW students engage in a two-semester fieldwork experience in their senior year. The experience is at least a 450-hour internship supervised by accredited social work field instructors. Over 60 agencies located in the Twin Cities of Minneapolis-St. Paul, Western Wisconsin and Eastern Minnesota participate to provide opportunities for real-world practice.
Any student may claim social work as a major and be advised by social work faculty. However, the Social Work Program does have a formal admission process. During the fall semester of the sophomore year, the student is required to submit a formal application to the program for acceptance into the major. The complete application along with the description of the admission process and the admission requirements is available in the Social Work Student Handbook. The following are among the requirements that must be met before the application can be submitted:

1. Successful completion of 36 semester credits;
2. Attainment of a cumulative grade point average of 2.25;
3. Completion of Social Work 150 and 205 with a grade of “C” or better and a major GPA of 2.50.

Meeting the above requirements does not guarantee admission to the program.

The following social work courses are open only to those who have been admitted to the Social Work Program: SOWK 324, 325, 424, 426, 472, 480 and 481.

**Admission to Field Practicum**

During the second semester of a student’s junior year, the student applies for entry into the field practicum. A careful review of the student’s academic record and potential for practice performance is undertaken at this time. Only students who have completed all course prerequisites and have demonstrated competency in communication and helping skills, have demonstrated a commitment to social work values, and meet all requirements and standards for admission to the field program will be admitted to the field experience course. Some placements may require a criminal background check.

Students should be aware that admission requirements to the social work program and the field practicum include factors other than GPA, may change at any time and may differ from those listed here. Current requirements may be found in the Student Handbook and the Field Manual.

The program reserves the right to deny admission to any applicant on the basis of failure to meet any specified requirements or due to an excess of applicants over available slots. In addition, all those admitted must maintain a grade of “C” or better in all social work courses, a major GPA of at least 2.50 and a cumulative GPA of 2.25 in order to graduate with a BSW degree.
Philosophy (PHIL)
Department of History and Philosophy
College of Arts and Sciences

307 Kleinpell Fine Arts Building
(715) 425-3164
www.uwrf.edu/history

History: John Buschen–Chair, Betty Bergland, Kurt Leichtle, Edward Peterson, David Riggs, and Zhiguo Yang.

Philosophy: Intiaz Moosa and David Peters

Philosophical inquiry aims at uncovering, analyzing, and evaluating the fundamental values and assumptions implicit in various human activities and practices such as science, the arts, religion, morality, and social and political institutions. Its ultimate goal is to develop a coherent view of the world and our place in it. Philosophy focuses on sharpening the ability to analyze, reason, and write effectively.

Philosophy Minor

Minor Requirements 24 Total Credits
Required Courses: 9 cr. hrs.
PHIL 221 Ancient Philosophy 3 cr.
PHIL 223 Origins of Modern Philosophy 3 cr.
PHIL 230 Logical Reasoning 3 cr.
Directed Electives: 15 cr. hrs.
Five additional PHIL courses
Physics (PHYS)
Department of Physics
College of Arts and Sciences

125 Centennial Science Hall
(715) 425-3235
www.uwrf.edu/physics/

James Madsen-Chair, Earl Blodgett, Eileen Korenic, Lowell McCann, and Glenn Spiczak

General Education Requirements

BA and BS Liberal Arts majors as listed on pages 22-23.
BS Education majors as listed on pages 31-32.

Physics Major–Liberal Arts

Physics Core Requirements: 25 cr. hrs.
The prerequisite courses for all courses required in the physics major must be passed with a grade of C or better
PHYS 101 General Physics Laboratory I 1 cr.
PHYS 102 General Physics Laboratory II 1 cr.
PHYS 204 Intermediate Physics Laboratory 1 cr.
PHYS 161 General Physics I 4 cr.
PHYS 162 General Physics II 4 cr.
PHYS 264 General Physics III 4 cr.
PHYS 301 Advanced Physics Laboratory I (writing intensive) 3 cr.
PHYS 302 Advanced Physics Laboratory II (writing intensive) 3 cr.
PHYS 311 Electronics: Circuits and Devices 3 cr.
PHYS 485 Seminar (writing intensive) 1 cr.

Required Supporting Courses: 20 cr. hrs.
MATH 166 Calculus I 4 cr.
MATH 167 Calculus II 4 cr.
MATH 331 Differential Equations 3 cr.
PHYS 211 Scientific Programming 3 cr.
or CSIS 162 Programming II
PHYS 361 Mathematics of Physics and Engineering I 3 cr.
PHYS 362 Mathematics of Physics and Engineering II 3 cr.

Option I 50 Total Credits
Recommended as preparation for graduate studies in physics or for industrial research.

Physics Major Core 25 cr. hrs.
Directed Electives in Physics 25 cr. hrs.
Choose from courses below:

Option II 36 Total Credits
Recommended for students wanting maximum flexibility for study in other areas

Physics Major Core 25 cr. hrs.
Directed Electives in Physics 11 cr. hrs.
Choose from courses below:

Directed Electives in Physics
PHYS 279 Cooperative Education and Internship 1 cr.
PHYS 312 Electronics: Linear Integrated Circuits 3 cr.
or PHYS 313 Electronics: Digital Circuit Theory and Applications
PHYS 318 Astrophysics 3 cr.
PHYS 321 Physical Acoustics I 2 cr.
PHYS 322 Physical Acoustics II 2 cr.
PHYS 379 Cooperative Education and Internship 3 cr.
PHYS 415 Thermodynamics 3 cr.
PHYS 420 Optics 4 cr.
PHYS 426 Nuclear and Particle Physics 4 cr.
PHYS 427 Condensed Matter Physics 4 cr.
PHYS 441 Classical Mechanics 4 cr.
PHYS 442 Electricity and Magnetism 4 cr.
PHYS 465 Quantum Mechanics 3 cr.

**Applied Option 49-50 Total Credits**
Recommended as preparation for a career in an industrial or government laboratory, or for graduate study in Applied Physics, Electronics, Engineering Physics, and Geophysics.

**Core Requirements 25 cr. hrs.**

**Required Courses in Physics 21 cr. hrs.**
PHYS 250 Statics 3 cr.
PHYS 252 Dynamics 3 cr.
PHYS 254 Deformable Body Mechanics 3 cr.
PHYS 312 Electronics: Linear Integrated Circuits 3 cr.
PHYS 313 Electronics: Digital Circuit Theory and Applications 3 cr.
PHYS 361 Mathematics of Physics and Engineering I 3 cr.
PHYS 362 Mathematics of Physics and Engineering II 3 cr.

**Directed Electives 3-4 cr. hrs.**
Choose an internship 3 cr.
or advanced courses of an applied nature elected from Physics, Chemistry, or Geology.

**Physics Major–Secondary Education**

**Major Requirements 36 Total Credits**

**Core Requirements: 25 cr. hrs.**

**Required Course: 3 cr. hrs.**
PHYS 331 Curriculum Physics 3

**Directed Electives in Physics 8 cr. hrs.**
As listed for Liberal Arts excluding PHYS 279 and 379 Internship course

**Physics Major–Dual Degree**

This major is awarded jointly with a B.S. in engineering after the student has successfully completed a three-year program at UW-River Falls with a minimum grade point average of 3.0 and a two-year program at either UW-Madison or the University of Minnesota.

**General Education requirements**

As listed for Liberal Arts excluding PHYS 279 and 379 Internship courses

**Required Courses in Physics at UW–River Falls: 10 cr. hrs.**
PHYS 101 General Physics Laboratory I (meets Gen Ed req) 1 cr.
PHYS 102 General Physics Laboratory II 1 cr.
PHYS 161 General Physics I (meets Gen Ed req) 4 cr.
PHYS 162 General Physics II 4 cr.

**Directed Electives: 20 cr. hrs.**
PHYS 250 Statics 3 cr.
PHYS 252 Dynamics 3 cr.
PHYS 254 Deformable Body Mechanics 3 cr.
PHYS 264 General Physics III 4 cr.
PHYS 301 Advanced Physics Laboratory I 3 cr.
PHYS 311 Electronics: Circuits and Devices 3 cr.
PHYS 361 Mathematics of Physics and Engineering I 3 cr.
PHYS 362 Mathematics of Physics and Engineering II 3 cr.
MATH 326 Applied Statistics 3 cr.
MATH 346 Numerical Analysis I 3 cr.

**Credits Transferred from Engineering School 20 cr. hrs.**

**Required Supporting Courses: 30 cr. hrs.**
MATH 166 Calculus I (meets Gen Ed req) 4 cr.
MATH 167 Calculus II 4 cr.
MATH 256 Linear Algebra 3 cr.
MATH 266 Calculus III 3 cr.
MATH 331 Differential Equations 3 cr.
PHYS 211 Scientific Programming 3 cr.
CHEM 121 General Chemistry I 5 cr.
CHEM 122 General Chemistry II 5 cr.

**Minor in Physics–Liberal Arts or Education**

**Physics Minor Requirements 24 Total Credits**

**Required Courses 14 cr. hrs.**
PHYS 101 General Physics Laboratory I 1 cr.
PHYS 102 General Physics Laboratory II 1 cr.
PHYS 161 General Physics I 4 cr.
PHYS 162 General Physics II 4 cr.
PHYS 264 General Physics III 4 cr.

**Directed Electives for Both Minors: 10 cr. hrs.**
PHYS 204 Intermediate Physics Laboratory (writing intensive) 1 cr.
PHYS 301 Advanced Physics Laboratory I (writing intensive) 3 cr.
PHYS 302 Advanced Physics Laboratory II (writing intensive) 3 cr.
PHYS 311 Electronics: Circuits and Devices 3 cr.
PHYS 312 Electronics: Linear Integrated Circuits 3 cr.
or PHYS 313 Electronics: Digital Circuit Theory and Applications
PHYS 318 Astrophysics 3 cr.
PHYS 321 Physical Acoustics I 2 cr.
PHYS 322 Physical Acoustics II 2 cr.
PHYS 415 Thermodynamics 3 cr.
PHYS 420 Optics 4 cr.
PHYS 426 Nuclear and Particle Physics 4 cr.
PHYS 427 Condensed Matter Physics 4 cr.
PHYS 441 Classical Mechanics 4 cr.
PHYS 442 Electricity and Magnetism 4 cr.
PHYS 465 Quantum Mechanics 3 cr.

**Additional Choice for Directed Elective for Secondary Education Minor:**
PHYS 331 Curriculum Physics 3 cr.

**Required Supporting Courses 11 cr. hrs.**
MATH 166 Calculus I 4 cr.
MATH 167 Calculus II 4 cr.
PHYS 361 Mathematics of Physics and Engineering I 3 cr.
or MATH 266 Calculus III

Pre-Engineering

Pre-Engineering 68 Total Credits

Required Courses: 55 cr. hrs.
PHYS 101 General Physics Laboratory I 1 cr.
PHYS 102 General Physics Laboratory II 1 cr.
PHYS 161 General Physics I 4 cr.
PHYS 162 General Physics II 4 cr.
PHYS 211 Scientific Programming 3 cr.
CHEM 121 General Chemistry I 5 cr.
CHEM 122 General Chemistry II 5 cr.
MATH 166 Calculus I 4 cr.
MATH 167 Calculus II 4 cr.
MATH 256 Linear Algebra 3 cr.
MATH 266 Calculus III 3 cr.
MATH 331 Differential Equations 3 cr.
ENGL 111 Freshman English I 3 cr.
ENGL 112 Freshman English II 3 cr.
ECON 201 Principles of Microeconomics 3 cr.
ECON 202 Principles of Macroeconomics 3 cr.
SCTA 101 Fundamentals of Oral Communication 3 cr.
Electives depending on final engineering major: 13 cr. hrs.
Select from MATH, PHYS, CSIS, CHEM, GENG, BIOL, GEOL
Political Science (POLS)
Department of Political Science
College of Arts and Sciences

356 Kleinpell Fine Arts Building
(715) 425-3318/3798
www.uwrf.edu/pols/

Tracey Gladstone-Sovell-Chair, Davida Alperin, Wesley Chapin, Jan Hillard.

The political science department’s requirements for a major or minor in liberal arts and in education are designed to expose students to the breadth of subject matter contained in the discipline of political science. The department has also outlined programs of study designed to prepare students for careers in the public sector, including foreign service, federal, state and local government.

Information for students interested in pre-law is listed on page 27 of the printed catalog.

Program recommendations focusing on public sector employment and foreign service are available from the department.

Broad Field Social Studies Major: Political Science is one of the subject fields comprising the Broad Field Social Studies major. For information about this major, see page 112 of the printed catalog.

Social Science Minor: Political Science is one of the subject fields comprising the minor in Social Science. For information about this minor, see page 111 of the printed catalog.

General Education Requirements

BA and BS Liberal Arts majors as listed on pages 22-23.
BS Education majors as listed on pages 31-32.

Political Science Major

Political Science Major: 36 Total Credits
Required Courses: 9 cr. hrs.
POLS 114 American National, State and Local Government 3 cr.
POLS 200 Political Analysis 3 cr.
POLS 480 Seminar in Political Science (writing intensive) 3 cr.

Directed Electives: 15 cr. hrs.
Select one course in each of the following five fields.
1. American Politics 3 cr. hrs.
Political Processes
POLS 225 Introduction to Public Administration
POLS 256 Public Policymaking

Political Institutions
POLS 311 American Political Parties and Elections
POLS 326 The American Presidency: The Office and its Powers
POLS 327 Congressional Politics

State/Local Government
POLS 253 State and Local Politics
POLS 322 Politics of American Cities

2. International Relations 3 cr. hrs.
POLS 260 Introduction to International Relations

3. Comparative Politics 3 cr. hrs.
POLS 245 Introduction to Comparative Politics

4. Political Philosophy 3 cr. hrs.
POLS 230 Contemporary Political Ideologies
POLS 308 Western Political Thought: The Renaissance through Marx
POLS 309 Western Political Thought: Nietzsche to the Present
POLS 310 History of American Political Thought

5. Political Behavior 3 cr. hrs.
POLS 212 The Politics of Equality and Inequality in the United States
POLS 314 Women and Politics
POLS 320 Journalism and Public Opinion
POLS 321 Political Participation

Electives: 12 cr. hrs.
Any POLS course, excluding courses taken to fulfill required or directed electives.

Restrictions: Students may apply a maximum of 6 credits of POLS 379 Internship in Political Science toward the elective section of the major. Students majoring in Political Science must take a minimum of 15 out of the total 36 credits for the major in courses numbered at the 300 level or above, excluding credits taken for POLS 379 Internship in Political Science.

Political Science Minor

Political Science Minor 24 Total Credits

Required Courses: 3 cr. hrs.
POLS 114 American National, State and Local Government 3

Directed Electives: 12 cr. hrs.
Select one course from four of the following five fields:

1. American Politics 3 cr. hrs
   Political Processes
   POLS 225 Introduction to Public Administration
   POLS 256 Public Policymaking

   Political Institutions
   POLS 311 American Political Parties and Elections
   POLS 326 The American Presidency: The Office and its Powers
   POLS 327 Congressional Politics

   State/Local Government
   POLS 253 State and Local Politics
   POLS 322 Politics of American Cities

2. International Relations 3 cr. hrs.
POLS 260 Introduction to International Relations

3. Comparative Politics 3 cr. hrs.
POLS 245 Introduction to Comparative Politics

4. Political Philosophy 3 cr. hrs.
POLS 230 Contemporary Political Ideologies
POLS 308 Western Political Thought: The Renaissance through Marx
POLS 309 Western Political Thought: Nietzsche to the Present
POLS 310 History of American Political Thought

5. Political Behavior 3 cr. hrs.
POLS 212 The Politics of Equality and Inequality
POLS 314 Women and Politics
POLS 320 Journalism and Public Opinion
POLS 321 Political Participation

Electives: 9 cr. hrs.
Any POLS course, excluding any courses taken to fulfill required or directed electives

**Restrictions:** Students may apply a maximum of 3 credits of POLS 379 Internship in Political Science toward the elective section of the minor. Students minoring in Political Science must take a minimum of 9 out of the total 24 credits for the minor in courses numbered at the 300 level or above, excluding credits taken for POLS 379 Internship in Political Science.

**Broad Field Social Studies Major**

For those who wish to teach political science in high school, the required major is the [Broad Field Social Studies Major](#)-Political Science Emphasis.
Professional and Organizational Communication
Department of Speech Communication and Theatre Arts
College of Arts and Sciences

B24 Kleinpell Fine Arts Building
(715) 425-3971

Barbara L. Werner -Chair, Suzanne Hagen, Robin Murray, James Pratt, Ronald Snell, Kenneth Stofferahn, Margaret M. Swanson, James Zimmerman

Professional and Organizational Communication Minor

Minor Requirements 24 Total Credits

Required Courses 15 cr. hrs.
SCTA 207 Listening Skills 3 cr.
SCTA 208 Problem Solving in Small Group Communication 3 cr.
SCTA 216 Communication in the Interview 3 cr.
SCTA 316 Organizational Communication 3 cr.

Choose any combination from the following two to total 3 credits:
SCTA 379 Internship in SCTA 3-4 cr.
SCTA 499 Independent Study/Independent Research 1-3 cr.

Directed Electives 9 cr. hrs.
SCTA 106 Interpersonal Communication 3 cr.
SCTA 111 Argumentation and Decision Making 3 cr.
SCTA 306 Nonverbal Communication 3 cr.
SCTA 311 Persuasion 3 cr.
SCTA 313 Intercultural Communication 3 cr.
SCTA 318 Communication and Leadership 3 cr.
SCTA 360 Corporate Electronic Communication 3 cr.
SCTA 416 Communication Training and Development in Organizations 3 cr.
SCTA 440 Gender Communication 3 cr.

A research/writing course experience is required in the major or another field; SCTA 284 Sophomore Seminar or another course approved by the department chair, will satisfy this requirement.
A senior portfolio experience is required in the major or another field; SCTA 484, Senior Portfolio experience is required in the major or another field; SCTA 484, Senior Portfolio Seminar or another course approved by the department chair, will satisfy this requirement.
Professional Writing
Department of English
College of Arts and Sciences

245 Kleinpell Fine Arts Building
(715) 425-3537
www.uwrf.edu/english/

Marshall Toman-Chair, David Beard, Jennifer S. Brantley, C. Bernhardt Brohaugh, Teresa Brown, David Furniss, Carl Gao, Larry Harred, Kathleen Hunzer, Nicholas Karolides, Annette Klemp, Steven Luebke, Richard McNamara, James Mulvey, Ronald Neuhaus, Ruth Wood, Laura Zlogar

The Professional Writing Minor Business-Government option provides study and practice in the spectrum of communication from graphic design to computer literacy and emphasizes training useful in business, industry, and government. The minor is not recommended for English Education majors. Students selecting this minor are advised to complete an English internship, ENGL 379.

The Professional Writing Minor Creative Writing option serves as a foundation for general publication or in-house publication in large businesses and also for "professional writing" in its traditional sense: "free-lance" writing as a primary or supplemental source of income or as an avocation. The minor is not recommended for English Education majors. Students selecting this minor are advised to complete an English internship, ENGL 379.

Professional Writing Minor

Business Government Option 23-24 Total Credits

Required Courses: 5-9 cr. hrs.
ENGL 251 Advanced Composition 3 cr.
ENGL 266 Business Writing 3 cr.
ENGL 367 Technical Writing 3 cr.

English Majors may not double count ENGL 251, but must take an additional appropriate course selected from ENGL 361, 370, 373, JOUR 241, 245, 269, 360, 363, or SCTA 334.

Directed electives: 14-15 cr. hrs.
A. Select two: 5-6 cr. hrs.
ART 225 Advertising Design I 3 cr.
ART 235 Introduction to Black and White Photography 3 cr.
ART 303 Advertising Design II 3 cr.
ART 335 Studio - Photography 3 cr.
JOUR 260 Introduction to Public Relations 2 cr.
JOUR 265 Beginning Photography 3 cr.
JOUR 266 Photojournalism 3 cr.
JOUR 269 Feature Writing for Magazines and Newspapers 2 cr.
JOUR 320 Journalism and Public Opinion 3 cr.
JOUR 360 Opinion Writing 3 cr.
JOUR 362 Advertising Principles 2 cr.
CSIS 105 Microcomputer Applications 2 cr.
ENGL 379 Internship 2-3 cr.

Only one of the beginning photography courses, JOUR 265 or ART 235, may be taken for credit.

B. Select two: 6 cr. hrs.
ENGL 320 Structure of English 3 cr.
ENGL 372 Practicum: Peer Tutoring and Writing Instruction 3 cr.
ENGL 482 Writing Seminar in Fiction and Poetry 3 cr.
SCTA 116 Business and Professional Communication 3 cr.
SCTA 211 Public Speaking 3 cr.
SCTA 216 Communication in the Interview 3 cr.
SCTA 311 Persuasion 3 cr.
SCTA 316 Organizational Comm 3 cr.
C. Select one additional course from any of the above. 3 cr.

Professional Writing-Creative Writing Option 24 Total Credits

Required Courses: 12 cr. hrs.
ENGL 251 Advanced Composition 3 cr.
ENGL 253 Introduction to Literary Studies 3 cr.
ENGL 262 Creative Writing 3 cr.
ENGL 482 Writing Seminar in Fiction and Poetry 3 cr.
English Majors may not double count ENGL 251, but must take an additional appropriate course selected from ENGL 361, 370, 373, JOUR 241, 245, 269, 360, 363, or SCTA 334; for ENGL 253, select another genre course.

Directed electives: 12 cr. hrs.
A. Select two: 6 cr. hrs.
ENGL 368 Writing Poetry 3 cr.
ENGL 369 Writing Fiction 3 cr.
ENGL 370 Writing Nonfiction 3 cr.
SCTA 334 Playwriting 3 cr.
B. Select one genre course: 3 cr. hrs.
ENGL 231 The Short Story 3 cr.
ENGL 232 Contemporary Drama 3 cr.
ENGL 233 Introduction to Poetry 3 cr.
ENGL 234 Modern Novels 3 cr.
ENGL 250 Children's Literature 3 cr.
ENGL 355 Literature for Adolescents 3 cr.
C. Select one: 3 cr. hrs.
ART 235 Introduction to Black and White Photography 3 cr.
ART 335 Studio - Photography 3 cr.
JOUR 245 Writing for Film and Television 3 cr.
JOUR 266 Photojournalism 3 cr.
JOUR 269 Feature Writing for Magazines and Newspapers 2 cr.
JOUR 360 Opinion Writing 3 cr.
SCTA 223 Oral Interpretation of Literature 3 cr.
SCTA 151 Broadcast Performance I 3 cr.
SCTA 334 Playwriting 3 cr.
SCTA 351 Broadcast Performance II 3 cr.
Psychology (PSYC)
Department of Psychology
College of Arts and Sciences

151 Centennial Science Hall
(715) 425-3306
www.uwrf.edu/psych/

Bradley Caskey–Chair, Lisa Isenberg, Cynthia Kernahan, Daniel Linwick, Barbara Rebhuhn, Michael Reich, Richard Seefeldt, Travis Tubré

The mission of the Department of Psychology’s undergraduate program is: (1) to provide students an understanding of the content and methods of psychology, (2) to prepare students for a lifetime of learning and thinking by cultivating their intellectual skills, and (3) to promote personal characteristics that are consistent with high ethical standards and a sensitivity to issues of culture, ethnicity, and gender. The department’s curriculum strives to prepare students both for graduate school and the world of work by instilling in students a basic science orientation, and by offering applied courses and experiences. Psychology is one of the subject fields comprising the Broad Field Social Studies major. For information about this major, see page 163 in the printed catalog.

General Education Requirements

As listed on pages 22-23 with the following exceptions:
General Psychology and Behavioral Statistics are required of all majors and minors but do not count toward the required hours if used to fulfill general education requirements.

Psychology Major

Psychology Major: 36 Total Credits
Core Requirements: 19 cr. hrs.
PSYC 101 General Psychology 3 cr.
(credits can be counted in general education)
PSYC 201 Behavioral Statistics 3 cr/
(credits can be counted in general education)
PSYC 110 Psychology Colloquium I 1 cr/
PSYC 205 Research Methods (writing intensive) 3 cr.
PSYC 265 Social Psychology 3 cr.
PSYC 305 Learning and Motivation 3 cr.
PSYC 315 Psychological Measurement and Evaluation 3 cr.
PSYC 355 Physiological Psychology 3 cr.
PSYC 401 History and Systems of Psychology 3 cr.

Required Courses: 9 cr. hrs.
Choose one of the following two courses:
PSYC 236 Developmental Psychology: Childhood and Adolescence 3 cr.
PSYC 336 Developmental Psychology: Adulthood and Aging 3 cr.
Choose one of the following two courses:
PSYC 310 Memory and Thinking 3 cr.
PSYC 350 Sensation and Perception 3 cr.
Choose one of the following two courses:
PSYC 320 Psychology of Personality 3 cr.
PSYC 325 Abnormal Psychology 3 cr.

Directed Electives: 36 cr. hrs.
Additional courses in Psychology. All psychology majors are required to participate in the departmental assessment of the psychology major. This involves keeping a portfolio and taking a psychology assessment test in their first and last year in the program.

Students seeking a Broad Field Social Studies (BFSS) degree with a concentration in psychology should see department chair for current major requirements.

**Psychology Minor**

**Psychology Minor: 24 Total Credits**

**Required Courses: 9 cr. hrs.**

PSYC 101 General Psychology 3 cr.

(credits can be counted in general education)

PSYC 201 Behavioral Statistics 3 cr.

(credits can be counted in general education)

PSYC 205 Research Methods (writing intensive) 3 cr.

or PSYC 315 Psychological Measurement and Evaluation

**Electives: 24 cr. hrs.**

Additional courses in Psychology

Sociology majors with a minor in psychology who have taken SOCI 300, Research Methods, may substitute another psychology course for the PSYC 205 or PSYC 315 requirement.
Science, Broad Field
Interdisciplinary Program

104 Centennial Science Hall
(715) 425-3196

Earl Blodgett-Coordinator; Biology, Brad Mogen (3364); Chemistry, Jeffrey Rosenthal (3538); Physics, Earl Blodgett (3196); Plant and Earth Science, Robert W. Baker (3345)

Broad Field Sciences Programs are monitored by representatives from the departments of biology, chemistry, physics, and plant and earth science. Students choosing one of these programs will typically be assigned an advisor from one of these departments. The Broad Field Science Programs are interdepartmental programs tailored to various interdisciplinary niches in the sciences. These programs are the equivalent of a major and a minor. A student selecting one of these programs is not required to have an additional minor. Two of these programs lead to certification in secondary or middle school education. Students interested in certification in those programs should consult the Secondary Education Handbook for Undergraduates at www.uwrf.edu/college-of-education/ for the detailed requirements for various levels of certification in Wisconsin.

General Education Requirements

Arts and Sciences as listed on pages 22-23; and Education and Professional Studies as listed on pages 31-32. Up to two of these courses may be double counted in the General Education program, depending on your specific course of study.

Broad Field Science Major – Liberal Arts

Broad Field Science Major - Liberal Arts: 60 Total Credits

Required Courses: 42 cr. hrs.
BIOL 150 General Biology 3 cr.
BIOL 210 General Botany 3 cr.
BIOL 230 General Zoology 3 cr.
CHEM 121 General Chemistry I 5 cr.
CHEM 122 General Chemistry II 5 cr.
GEOL 101 Introductory Geology 3 cr.
GEOL 102 Introductory Geology Lab 1 cr.
GEOL 150 Historical Geology 4 cr.
GEOL 202 Oceanography 3 cr.
ISCI 497 Interdisciplinary Capstone in Science 2 cr.

Choose either sequence A or B below:
A. PHYS 151 General Physics I 4 cr.
PHYS 152 General Physics II 4 cr.
PHYS 156 General Physics Laboratory I 1 cr.
PHYS 157 General Physics Laboratory II 1 cr.
B. PHYS 101 General Physics Laboratory I 1 cr.
PHYS 102 General Physics Laboratory II 1 cr.
PHYS 161 General Physics I 4 cr.
PHYS 162 General Physics II 4 cr.

Directed Electives: (complete concentrations in two areas) 13-15 cr. hrs.
Biology: 6 cr. hrs.
BIOL 240 Cell Biology 3 cr.
BIOL 310 Identification of Plants 3 cr.
Chemistry: 7 cr. hrs.
CHEM 230 General Organic Chemistry
or CHEM 231 Organic Chemistry I 3 cr.
CHEM 236 Organic Chemistry Lab I 1 cr.
CHEM 251 Analytical Chemistry 2 cr.
CHEM 256 Analytical Chemistry Lab 1 cr.

**Geology: 8 cr. hrs.**
GEOL 230 Mineralogy 4 cr.
GEOL 327 Geomorphology and Glacial Geology (writing intensive) 4 cr.

**Physics: 7 cr. hrs.**
PHYS 264 General Physics III 4 cr.
PHYS 300 level or higher, excluding 361 and 362 3 cr.

**Electives: 3-5 cr. hrs.**
Select from BIOL, CHEM, GEOL, PHYS

**Broad Field Science Major–Education: Broad Science Certification**

A person with a broad field science license may teach any science class, middle-school level through grade 10, and any basic science class in grades 11-12 which is not a college-preparatory course, advanced placement (AP) course, or an elective course with more depth of content than a basic course. However, you may teach advanced courses in your areas of concentration.

**Broad Field Science Major–Education:**

**Broad Science Certification 63 Total Credits**
Requirements as listed for the Broad Field Science Major–Liberal Arts 60 cr. hrs.
Plus ESM 300 Environmental Education 3 cr.
or GEOG 300 Environmental Education

**Broad Field Science Major–Education: Physical Science Certification**

This program leads to certification for chemistry, physics and physical science, for both basic and advanced courses at the secondary school level.

**Broad Field Science Major–Education:**

**Physical Science Certification 63 Total Credits**
CHEM 121 General Chemistry 5 cr.
CHEM 122 General Chemistry 5 cr.
CHEM 230 General Organic Chemistry 3 cr.
or CHEM 231 Organic Chemistry I
CHEM 236 Organic Chemistry Lab I 1 cr.
CHEM 251 Analytical Chemistry 2 cr.
CHEM 256 Analytical Chemistry Lab 1 cr.
PHYS 101 General Physics Laboratory I 1 cr.
PHYS 102 General Physics Laboratory II 1 cr.
PHYS 161 General Physics I 4 cr.
PHYS 162 General Physics II 4 cr.
PHYS 264 General Physics III 4 cr.
PHYS 311 Electronics: Circuits and Devices 3 cr.
PHYS 331 Curriculum Physics 3 cr.
MATH 166 Calculus I 4 cr.
MATH 167 Calculus II 4 cr.
ESM 300 Environmental Education 3 cr.
or GEOG 300 Environmental Education
ISCI 497 Interdisciplinary Capstone in Science 2 cr.

**Directed Electives 13 cr. hrs.**

**Chemistry-Choose from: 6-7 cr. hrs.**
CHEM 232 Organic Chemistry II 4 cr.
CHEM 237 Organic Chemistry Lab II 1 cr.
CHEM 311 Polymer Chemistry 3 cr.
CHEM 340 Physical Chemistry of Biological Systems 3 cr.
CHEM 341 Chemical Thermodynamics and Kinetics 3 cr.
CHEM 342 Molecular Structure of Spectroscopy 3 cr.
CHEM 355 Separate Science Lab 1 cr.
CHEM 356 Chemical Instrumentation Lab 1 cr.
CHEM 361 Biochemistry I 3 cr.
CHEM 411 Polymer Science 3 cr.
CHEM 416 Polymer Lab 1 cr.
CHEM 422 Advanced Inorganic Chemistry 3 cr.
CHEM 461 Pharmacology 3 cr.

**Physics-Choose from: 3-4 cr. hrs.**
PHYS 300 level or higher, excluding 361 and 362 3 cr.

**Math-Choose from: 3 cr. hrs.**
MATH 266 Calculus III 3 cr.
or PHYS 361 Mathematics of Physics and Engineering
Science, General
Interdisciplinary Program

104 Centennial Science Hall
(715) 425-3196
www.uwrf.edu/bfs/

Earl Blodgett–Coordinator

General Science Minor for Elementary Science Teachers

Up to two of these courses may be double counted in the General Education program, depending on your specific course of study. When planning your course selection, be sure to consider the prerequisites for upper level courses. Higher level courses may be substitute on a case-by-case basis; contact the coordinator.

General Science Minor 30 Total Credits
Select 12 credits from one area and 6 credits from each of the remaining three areas:

Biology 6-12 cr. hrs.
BIOL 150 General Biology 3 cr.
BIOL 210 General Botany 3 cr.
BIOL 230 General Zoology 3 cr.
BIOL 253 Human Biology 3 cr.

Chemistry 6-12 cr. hrs.
CHEM 101 Elementary Principles of Chemistry 3 cr.
CHEM 200 Chemistry and the Environment 3 cr.
CHEM 220 Chemistry of Life 3 cr.
CHEM 230 General Organic Chemistry 3 cr.

Geology 6-12 cr. hrs.
GEOL 101 Introductory Geology 3 cr.
GEOL 102 Introductory Geology Lab 1 cr.
GEOL 150 Historical Geology 4 cr.
GEOL 202 Oceanography 3 cr.
GEOL 269 Environmental Geology 2 cr.
GEOL 305 Geology of the Planets 2 cr.
GEOL 330 Meteorology 2 cr.

Physics 6-12 cr. hrs.
PHYS 114 Basic Physics 3 cr.
PHYS 117 Introductory Astronomy 3 cr.
PHYS 220 The Science of Light 4 cr.
PHYS 318 Astrophysics 3 cr.
PHYS 321 The Science of Sound 2 cr.
Speech Communication and Theatre Arts (SCTA)  
Department of Speech Communication and Theatre Arts  
College of Arts and Sciences  

B-24 Kleinpell Fine Arts Building  
(715) 425-3971  
www.uwrf.edu/scta  

Barbara L. Werner - Chair, Suzanne Hagen, Evan Johnson, Robin Murray, James Pratt, Ronald Snell, Kenneth Stofferahn, Margaret M. Swanson, Jennifer Willis-Rivera, James Zimmerman  

General Education Requirements  

BA and BS Liberal Arts majors as listed on pages 22-23 in the printed catalog.  
BS Education majors as listed on pages 31-32 in the printed catalog.  

Speech Communication Major - Liberal Arts, B.S.  

Speech Communication Emphasis 34 Total Credits  
Required Courses: 16 cr. hrs.  
SCTA 106 Interpersonal Communication 3 cr.  
SCTA 207 Listening Skills 3 cr.  
SCTA 306 Nonverbal Communication 3 cr.  
SCTA 311 Persuasion 3 cr.  
SCTA 484 Senior Portfolio Seminar in SCTA 1 cr.  
Directed Electives: 18 cr. hrs.  
SCTA 111 Argumentation and Decision Making 3 cr.  
SCTA 206 Family Communication 3 cr.  
SCTA 208 Problem Solving in Small Group Communication 3 cr.  
SCTA 316 Organizational Communication  
SCTA 211 Public Speaking 3 cr.  
SCTA 313 Intercultural Communication 3 cr.  
SCTA 314 Introduction to Criticism for Oral Communication 3 cr.  
SCTA 319 Freedom to Speak 3 cr.  
SCTA 414 Speech in History 3 cr.  
SCTA 440 Gender Communication 3 cr.  
SCTA 370 Intercolligate Debate 1 cr.  
or SCTA 371 Intercolligate Forensics 1cr.  
SCTA 379 Internship 3-12 cr.  
or SCTA 499 Independent Study/Independent Research 1-3 cr.  

Professional and Organizational Communication Emphasis 34-35 Total Credits  
Students should take SCTA 116 for General Education Requirement.  
Required Courses: 22-23 cr. hrs.  
SCTA 106 Interpersonal Communication 3 cr.  
SCTA 207 Listening Skills 3 cr.  
SCTA 208 Problem Solving in Small Group Communication 3 cr.  
SCTA 216 Communication in the Interview 3cr.  
SCTA 284 Sophomore Seminar: Foundations in Communication and Theatre Studies  
SCTA 316 Organizational Communication 3 cr.  

SCTA 379 Internship 3-12 cr.
and/or SCTA 499 Independent Study/Independent Research (1-3 cr.)
SCTA 484 Senior Portfolio Seminar in SCTA 1 cr.

**Directed Electives: 12 cr. hrs.**
SCTA 111 Argumentation and Decision Making 3 cr.
SCTA 306 Nonverbal Communication 3 cr.
SCTA 311 Persuasion 3 cr.
SCTA 313 Intercultural Communication 3 cr.
SCTA 318 Communication and Leadership 3 cr.
SCTA 360 Corporate Electronic Communication 3 cr.
SCTA 416 Communication Training and Development in Organizations 3 cr.
SCTA 440 Gender Communication 3 cr.

After consultation with the academic advisor, up to 6 directed elective credits from the approved list of courses in other departments may be taken to achieve a specific career path.

**Mass Communication Emphasis 35 Total Credits**

**Required Courses: 26 cr. hrs.**
SCTA 151 Broadcast Performance 3 cr.
SCTA 160 TV Studio Production 3 cr.
SCTA 260 Electronic Field Production 3 cr.
SCTA 261 Electronic Media Copy Writing 3 cr.
SCTA 310 Media Literacy - A Weapon Against Propaganda 3 cr.
SCTA 360 Corporate Electronic Communication 3 cr.
SCTA 377 Mass Communication Practicum 1 cr.
SCTA 458 Broadcast Programming and Criticism 3 cr.
SCTA 484 Senior Portfolio Seminar in SCTA 1 cr.

**Directed Electives: 9 cr. hrs.**
Choose one from the following:
SCTA 353 Mass Media and Popular Culture 3 cr.
SCTA 340 Gender, Race, Ethnicity and Class in Media 3 cr.
Choose one from the following:
SCTA 311 Persuasion 3 cr.
JOUR 345 History of Mass Communication 3 cr.
Choose 3 cr. from the following:
SCTA 379 Internship in SCTA 3-12 cr.
SCTA 200 Introduction to Film Studies 3 cr.
SCTA 216 Communication in the Interview 3 cr.
SCTA 222 Voice and Articulation 3 cr.
SCTA 248 Film - Cultures in Conflict 3 cr.
SCTA 301 Film History 3 cr.
JOUR 319 The Media and American Politics 3 cr.
JOUR 455 Mass Media and Society 3 cr.
JOUR 465 Mass Communication Law 3 cr.
SCTA 499 Independent Study/Independent Research 1-3 cr.

**Speech Communication Major - Liberal Arts B.A**

**Speech Communication Major - Liberal Arts B.A. 34 Total Credits**

**Required Courses: 4 cr. hrs.**
SCTA 484 Senior Portfolio Seminar in SCTA 1 cr.

**Directed Electives: 30 cr. hrs.**
An approved plan of study must be filed with the Department of SCTA by the beginning of the junior year or immediately upon declaring a SCTA major.

Speech Communication Major - Secondary Education

Speech Communication Major - Secondary Education: 37 Total Credits
Required Courses: 31 cr. hrs.
SCTA 106 Interpersonal Communication 3 cr.
SCTA 111 Argumentation and Decision Making 3 cr.
SCTA 208 Problem Solving in Small Group Communication 3 cr.
SCTA 211 Public Speaking 3 cr.
or SCTA 311 Persuasion
SCTA 306 Nonverbal Communication 3 cr.
SCTA 314 Introduction to Criticism for Oral Communication 3 cr.
SCTA 403 Directing the Secondary School Forensics Program 3 cr.
SCTA 407 Listening Instruction 3 cr.
SCTA 414 Speech in History 3 cr.
SCTA 484 Senior Portfolio Seminar in SCTA 1 cr.
Electives in SCTA 6 cr. hrs.

Speech Communication Minor - Secondary Education

Speech Communication Minor - Secondary Education 24 Total Credits
Required Courses: 24 cr. hrs.
SCTA 106 Interpersonal Communication 3 cr.
SCTA 208 Problem Solving in Small Group Communication 3 cr.
SCTA 211 Public Speaking 3 cr.
or SCTA 311 Persuasion
SCTA 306 Nonverbal Communication 3 cr.
SCTA 314 Introduction to Criticism for Oral Communication 3 cr.
SCTA 403 Directing the Secondary School Forensics Program 3 cr.
SCTA 407 Listening Instruction 3 cr.
SCTA 414 Speech in History 3 cr.
A research/writing course experience is required in the major or another field; SCTA 284 Sophomore Seminar or another course approved by the department chair, will satisfy this requirement. A senior portfolio experience is required in the major or another field; SCTA 484, Senior Portfolio experience is required in the major or another field; SCTA 484, Senior Portfolio Seminar or another course approved by the department chair, will satisfy this requirement.

Speech Communication Minor - Elementary Education

Speech Communication Minor - Elementary Education: 24 Total Credits
Required Courses: 9 cr. hrs.
SCTA 223 Oral Interpretation of Literature 3 cr.
SCTA 306 Nonverbal Communication 3 cr.
SCTA 407 Listening Instruction 3 cr.
Directed Electives: 9 cr. hrs.
SCTA 208 Problem Solving in Small Group Communication 3 cr.
SCTA 327 Children’s Theatre and Puppetry 3 cr.
SCTA 328 Creative Dramatics for Children and Special Populations 3 cr.
SCTA 335 Directing I 3 cr.
or SCTA 231 Stage Technology and Scene Painting
Electives in SCTA: 6 cr. hrs.
A research/writing course experience is required in the major or another field; SCTA 284 Sophomore Seminar or another course approved by the department chair, will satisfy this requirement. A senior portfolio experience is required in the major or another field; SCTA 484, Senior Portfolio experience is required in the major or another field; SCTA 484, Senior Portfolio Seminar or another course approved by the department chair, will satisfy this requirement.

## Speech Communication Minor - Liberal Arts, B.S.

**Speech Communication Minor - Liberal Arts, B.S. 24 Total Credits**

### Required Courses: 12 cr. hrs.
- SCTA 106 Interpersonal Communication 3 cr.
- SCTA 207 Listening Skills 3 cr.
- SCTA 306 Nonverbal Communication 3 cr.
- SCTA 311 Persuasion 3 cr.

### Directed Electives: 12 cr. hrs.
- SCTA 111 Argumentation and Decision Making 3 cr.
- SCTA 206 Family Communication 3 cr.
- SCTA 208 Problem Solving in Small Group Communication 3 cr.
- or SCTA 316 Organizational Communication
- SCTA 211 Public Speaking 3 cr.
- SCTA 313 Intercultural Communication 3 cr.
- SCTA 314 Introduction to Criticism for Oral Communication 3 cr.
- SCTA 319 Freedom to Speak 3 cr.
- SCTA 414 Speech in History 3 cr.
- SCTA 440 Gender Communication 3 cr.
- SCTA 370 Intercollegiate Debate 1 cr.
- or SCTA 371 Intercollegiate Forensics 1cr.
- or SCTA 379 Internship in SCTA 3-12 cr.
- SCTA 499 Independent Study/Independent Research

A research/writing course experience is required in the major or another field; SCTA 284 Sophomore Seminar or another course approved by the department chair, will satisfy this requirement. A senior portfolio experience is required in the major or another field; SCTA 484, Senior Portfolio experience is required in the major or another field; SCTA 484, Senior Portfolio Seminar or another course approved by the department chair, will satisfy this requirement.
The degree curricula designed to prepare teachers for the secondary school, grades 9-12, consists of a minimum of 120 semester hours that give the student a broad general education, specialized preparation in one or more academic fields and professional preparation needed for effective teaching. Specific course requirements are listed for each academic department preceding the departmental course descriptions.

General Education Requirements

As listed on pages 31-32.
Coursework included in the professional sequence, major, minor or concentration may not be included in the general education component.

 Bachelor of Science in Secondary Education

Professional Requirements: 31-43 Total Credits
TED 120 Foundations of Education and Technology 3 cr.
TED 212 Educational Psychology: Middle and Secondary Ed (writing intensive) 5 cr.
Admission to teacher education is required before students can enroll in 420, 422, 423.
TED 414 Transescent Development 4 cr.
TED 420 School and Society (writing intensive) 3 cr.
TED 422 Content Area Literacy in Middle and Secondary Schools 3 cr.
TED 423 Writing, Speaking and Listening in the Content Area 3 cr.
Admission to teacher education is required before students can enroll in technique courses.
TED 430-441 Techniques of Middle/Secondary Education 3 cr.
TED 474 Student Teaching: Secondary 1-12 cr.
TED 473 Student Teaching: Middle Level 1-6 cr.
PSYC 330 The Exceptional Child 3 cr.

University and DPI General Education Requirements

Academic Specialization: 54-58 Total Credits
Option A - Departmental major and one minor
Option B - Two departmental majors
Option C - Broad Field major

Approved Secondary Education Majors and Minors

Comprehensive Majors:
Art (K-12)
Broad Area/Physical Science
Broad Area Social Studies-1,2
English, Broad Area Physical Education (K-12)-1
Music (K-12)

**Majors:**
Agricultural Education-1
Applied Computer Systems
Art
Biology
Chemistry
Communicative Disorders
Earth Science-2
English
Journalism
Mathematics
Modern Language (French, German, Spanish)
Physics
Social Studies-1,2
Speech

**Minors:**
Anthropology-1
Athletic Coaching
Biology
Chemistry
Computer Science
Earth Science-2
Economics-1
English1
French
General Science
Geography-1
German
Health Education
History-1
Journalism
Mathematics
Physics
Political Science-1
Spanish
Speech
Sociology-1

1-Cooperatives. Wisconsin law requires that teachers of Economics, social studies and agriculture complete adequate instruction in consumers’ cooperatives and cooperative marketing. Students in agriculture can satisfy this requirement by successful completion of AGEC 240 or 355. Students in Economics and social sciences can satisfy this requirement by successful completion of TED 433 or AGEC 240 or 355.

2-If you are interested in teaching Economics, geography, history, political science, psychology or sociology, please see Social Sciences, Broad Area.
Sociology (SOCI)
Department of Sociology, Anthropology, and Criminal Justice
College of Arts and Sciences

326 Kleinpell Fine Arts Building
(715) 425-3992
www.uwrf.edu/sociology/

Edward Robins–Chair, Brian Copp, Tricia Davis, Jean Hector Faley, Clifford Mottaz, Timothy E. Nissen, Rich Wallace

The Department of Sociology, Anthropology, and Criminal Justice offers several options for Majors and Minors:
1. Major in Sociology Liberal Arts-Sociology Major may be used as part of a Broad-Field Social Studies Major;
2. Minor in Sociology-Liberal Arts;
3. Minor in Sociology-Education;
4. Minor in Anthropology;
5. Minor in Criminal Justice (Sociology Major); and

General Education Requirements:

BA and BS Liberal Arts majors as listed on pages 22-23.
BS Education majors as listed on pages 31-32.
Social and Behavioral Sciences: SOCI 100 or ANTH 100

Sociology Major

Sociology Major: 39 Total Credits
Core Requirements: 18 cr. hrs.
SOCI 100 Introduction to Sociology
(counts 3 cr. in Gen. Ed.)
or ANTH 100 Introduction to Anthropology
(counts 3 cr. in Gen. Ed.)
SOCI 200 Sociological Inquiry 3 cr.
SOCI 208 Sociology of Diversity 3 cr.
or SOCI 225 Sociology of Race and Ethnicity
or ANTH 225 Sociology of Race and Ethnicity
SOCI 250 Social Statistics 3 cr.
SOCI 300 Research Methods 3 cr.
SOCI 400 Social and Cultural Theory 3 cr.
SOCI 480 Senior Seminar 3 cr.

Directed Electives: 21 cr. hrs.
15 credits must be at 300/400 level with at least 6 credits at the 400 level
SOCI 205 Culture and Personality 3 cr.
or ANTH 205 Culture and Personality
SOCI 211 Global Perspectives on Children 3 cr.
or ANTH 211 Global Perspectives on Children
SOCI 218 Deviant Behavior 3 cr.
SOCI 221 Global Perspectives on Women 3 cr.
or ANTH 221 Global Perspectives on Women
SOCI 227 Religious Groups and Cults 3 cr.
SOCI 228 Native American Cultures 3 cr.
or ANTH 228 Native American Cultures
SOCI 230 Sociology of Sport and Leisure 3 cr.
SOCI 240 Social Problems 3 cr.
SOCI 245 Environmental Sociology 3 cr.
SOCI 247 Human and Cultural Origins 3 cr.
or ANTH 247 Human and Cultural Origins
SOCI 310 Sociology through Film 3 cr.
SOCI 315 Sociology of Later Life 3 cr.
SOCI 323 Sociology of the Family 3 cr.
SOCI 326 Sociology of Gender Roles 3 cr.
SOCI 330 Social Organization 3 cr.
SOCI 338 Global Perspectives on Health and Disease 3 cr.
or ANTH 338 Global Perspectives on Health and Disease
SOCI 340 Sociology of Rural Life 3 cr.
SOCI 345 Sociology of Urban Life 3 cr.
SOCI 348 Faces of Culture 3 cr.
or ANTH 348 Faces of Culture
SOCI 378 Semester Abroad Research 3-6 cr.
SOCI 389 Special Topics in Sociology 2-3 cr.
or ANTH 389 Special Topics in Anthropology
SOCI 410 Social Psychology 3 cr.
SOCI 435 Social and Cultural Change 3 cr.
or ANTH 435 Social and Cultural Change
SOCI 445 Power and Inequality 3 cr.
SOCI 490 Readings in Sociology 1-2 cr.
or ANTH 490 Readings in Anthropology
or SOCI 499 Independent Study cr.
or ANTH 499 Independent Study

Sociology Minor–Liberal Arts or Education

Sociology Minor - Liberal Arts or Education: 24 Total Credits
Required Courses: 9 cr. hrs.
SOCI 100 Introduction to Sociology (3 cr.)
(counts 3 cr. in Gen. Ed.)
or ANTH 100 Introduction to Anthropology
(counts 3 cr. in Gen. Ed.)
SOCI 200 Sociological Inquiry 3 cr.
SOCI 208 Sociology of Diversity 3 cr.
or SOCI 225 Sociology of Race and Ethnicity
or ANTH 225 Sociology of Race and Ethnicity
SOCI 400 Social and Cultural Theory 3 cr.

General Electives in Sociology/Anthropology 15 cr. hrs.
(at least 9 credits must be at 300/400 level)

Broad Field Social Studies Major

For those who wish to teach sociology in high school, the required major is the Broad Field Social Studies Major, see page 96 of the printed catalog.
The Broad Field Social Studies (BFSS) degree is the preferred degree for secondary teaching in the area of social studies. This degree offers many options and great versatility. The program requires that the student have a concentration (a major) in one of the social sciences and then additional work in the other social sciences.

General Education Requirements

Social and Behavioral Science:
- POLS 114 American, National, State and Local Government
- PSYC 101 General Psychology
- TED 252 Foundations of Multicultural Education
- ESM or GEOL 300 Environmental Education

Professional Secondary Education Requirements

Professional Secondary Education Requirements 37 Total Credits
Major Requirements 36-39 cr. hrs.
Meet the major requirements in one of the social sciences: Economics, Geography, History, Political Science, Psychology, or Sociology
Directed Electives: 30 cr. hrs.
Any social science outside area of concentration 9 cr.
Any other social science outside area of concentration 9 cr.
One course in each of the remaining social sciences. 12 cr.
Soil Science (SOIL)
Department of Plant and Earth Science
College of Agriculture, Food and Environmental Sciences

324 Agriculture Science Hall
(715) 425-3345

See Crops and Soils
Social Science Interdisciplinary

304 Fine Arts
(715) 425-3164

Kurt Leichtle–Coordinator

The minor in Social Science, available for majors in elementary and middle school (6-9) education is a program of study comprised of several social science disciplines: economics, geography, history, political science and sociology. For information about this minor see the program listing for History.

Social Science Minor

Required Courses: 30 Total Credits
HIST 102 Origins of One World 3 cr.
HIST 103 U.S. History to 1877 3 cr.
HIST 104 U.S. History Since 1865 3 cr.
GEOG 110 Physical Environment: Patterns and Systems 3 cr.
GEOG 120 Human Geography 3 cr.
ECON 100 Modern Economics 3 cr.
SOCI 100 Introduction to Sociology 3 cr.
ANTH 100 Introduction to Anthropology 3 cr.
POLS Any POLS course excluding POLS 114 3 cr.
PSYC Any PSYC course excluding 101 and 330 3 cr.
The four-year curriculum leading to a bachelor’s degree in Social Work is listed below. The minimum of 120 semester credits required for graduation provides students with knowledge, values, and skills necessary for the beginning level of generalist social work practice.

Social Work Major

Major Requirements 123 Total Credits
Required Courses: 54 cr. hrs.
SOWK 150 Introduction to Social Work Services 3 cr.
SOWK 205 Introduction to Social Work and Social Welfare 3 cr.
SOWK 215 Human Behavior and Social Environment 3 cr.
SOWK 250 Use, Abuse, and Addiction 3 cr.
SOWK 300 Research Methods 3 cr.
SOWK 324 Theory and Practice of Social Work I 3 cr.
SOWK 325 Theory and Practice of Social Work II 3 cr.
SOWK 350 Social Welfare Policy 3 cr.
SOWK 389 Special Topics in Social Work (2) 6 cr.
SOWK 424 Advanced Interviewing and Crisis Intervention 3 cr.
SOWK 426 Theory and Practice Of Social Work III 3 cr.
SOWK 472 Social Work Field Instruction (2) 12 cr.
SOWK 480 Senior Integrative Seminar 3 cr.
SOWK 481 Integrating Practice and Research 3 cr.
Required Supporting Courses: 8 cr. hrs.
SOWK 100 Introduction to Sociology 3 cr.
CSIS 105 Microcomputer Applications 2 cr.
SOWK 260 Practice with Diverse Populations 3 cr.
Directed Electives: 3 cr. hrs.
SOCI 218 Deviant Behavior 3 cr.
SOCI 221 Global Perspectives on Women 3 cr.
SOCI 315 Sociology of Later Life 3 cr.
SOCI 323 Sociology of the Family 3 cr.
SOCI 330 Social Organizations 3 cr.
SOCI 338 Global Perspectives on Health and Disease 3 cr.
SOCI 435 Social and Cultural Change 3 cr.
SOCI 445 Power and Inequality 3 cr.
CJ 202 Introduction to Criminal Justice 3 cr.
CJ 320 Juvenile Delinquency 3 cr.
CJ 322 Criminology 3 cr.
CJ 430 Trends and Issues in Incarceration 3 cr.
SCTA 206 Family Communication 3 cr.
SCTA 207 Listening Skills 3 cr.
SCTA 208 Problem Solving in Small Group Communication 3 cr.
SCTA 318 Communication and Leadership 3 cr.
PSYC 236 Developmental Psychology: childhood and Adolescence 3 cr.
PSYC 330 The Exceptional Child 3 cr.
PSYC 336 Developmental Psychology: Adulthood and Aging 3 cr.
PSYC 365 Individual and Group Processes 3 cr.
PSYC 420 Introduction to Learning Disabilities 3 cr.
PSYC 421 Mental Retardation 3 cr.
POLS 225 Introduction to Public Administration 3 cr.
POLS 253 State and Local Politics 3 cr.
POLS 256 Public Policymaking 3 cr.
HIST 310 History of American Political Thought 3 cr.
WMST 200 Introduction to Women’s Studies 3 cr.
INTS 200 Introduction to International Studies 3 cr.
The four-year curriculum leading to the bachelor's degree in Elementary Education, designed to prepare teachers for elementary schools, grades 1-6, consists of a minimum of 132 semester hours that give students a broad general education, professional preparation for effective teaching at the elementary education level, and special preparation in an academic minor. Upon completion of these requirements, the elementary education major is certifiable for grades 1-6. Additional coursework is required for middle school (7-9) certification. Addition of the early childhood minor meets requirements for pre-k and kindergarten certification.

Admission to Teacher Education is required the semester prior to enrolling in the Block sequence. See the college web page http://www.uwrf.edu/college-of-education/ for a complete list of requirements for admission and current admission deadline dates.

Students spend three days per week for two semesters at public schools with innovative instructional programs. The techniques blocks involve two semesters of the junior year and includes the following courses:

Block I: TED 310, 311, 312 12 cr. hrs.
Block II: TED 315, 316, 317 12 cr. hrs.

General Education Requirements as listed on pages pages 47-48.

Elementary Education Major: 44 Total Credits
TED 211 Educational Psychology: Elementary Education (writing intensive) 5 cr. hrs.
TED 420 School and Society (writing intensive) 3 cr. hrs.
TED 310 Techniques in Elementary Education: Language Arts 4 cr. hr.
TED 311 Techniques in Elementary Education: Social Studies 4 cr. hr.
TED 312 Techniques in Elementary Education: Science 4 cr. hr.
TED 315 Techniques in Elementary Education: Mathematics 4 cr. hr.
TED 316 Developmental Reading 4 cr. hr.
TED 317 Reading Practicum 4 cr. hr.
TED 472 Student Teaching: Elementary Education 12 cr. hrs.

Required Courses: 15 cr. hrs.
TED 255 Reading Guidance for Children 3 cr. hrs.
or ENGL 250 Literature for Children
ART 250 Child Art 2 cr. hrs.
MUS 350 Music for Elementary Teachers 2 cr. hrs.
PSYC 330 The Exceptional Child 3 cr. hrs.
HEAL 361 Methods and Materials in Health for the Elementary Teacher 3 cr. hrs.
P ED 326 Techniques in Physical Education for the Elementary School Teacher 2 cr. hrs.

Minor Areas: Elementary education majors must select a minor which meets two criteria:
1) it must be a certifiable curriculum area, and
2) it must be an important subject taught in elementary schools.

Minors recommended for the Elementary Education Major by the Wisconsin Department of Public Instruction include:
- Early Childhood
- Health Education
- Language Arts/Reading Science
- Mathematics
- Modern Language
- Social Studies
- Speech Communication

Other acceptable minors are:
- Anthropology
- Biology
- Chemistry
- Coaching/Athletics
- Communicative Disorders
- Computer Science
- Dance
- Earth Science
- Economics
- English
- Geography
- History
- Journalism
- Philosophy
- Physics
- Political Science
- Psychology
- Sociology
Teaching English to Speakers of Other Languages (TESOL)
Department of English
College of Arts and Sciences

245 Kleinpell Fine Arts Building
(715) 425-3537
www.uwrf.edu/english/

Laura Zlogar–Chair, Jennifer Brantley, David Furniss, Greta Gaard, Larry Harred, Mialisa Hubbard, Kathleen Hunzer, Nicholas Karolides, Annette Klemp, Steven Luebke, Richard McNamara, James Mulvey, Ronald Neuhaus, Michelle Parkinson, Vladimir Pavlov, Elizabeth Schnieder-Rebozo, Robyne Tiedeman, Marshall Toman, Ruth Wood

General Education Requirements-Liberal Arts

B.A. and B.S. Liberal Arts Majors
As listed on pages 22-23 with the following exceptions:
Social and Behavioral: TESOL majors and minors should include PSYC 101 among their three social science courses.
Mathematics: TESOL majors and minors should take PSYC 201, Behavioral Statistics, to fulfill their mathematics requirement.

B.S. Education Majors
As listed on pages 31-32.

TESOL Major - Liberal Arts

TESOL Major - Liberal Arts: 36 Total Credits
Foreign Language Requirement: (6 cr. hrs.)
(credits not counted in major)
6 semester hours of a foreign language, the high school equivalent, or proven proficiency in a foreign language is required of all students pursuing a TESOL major. This foundation requirement is not included in the number of credit hours needed for the major proper. The 6 semester hours are separate from the Cultural Component. A first language used by a major who is a non-native speaker of English to satisfy this language requirement cannot be used as the basis for satisfying the cultural requirement below; study in the English language should be used for such a student or, in the case of fluency in English, the student may request to do the cultural component in a language other than English or the student’s native language. In the case of fluency in both English and a native language, a student may elect to satisfy this language requirement by a third language.
Required Courses: 24 cr. hrs.
ENGL 311 Introduction to Language and Linguistics 3 cr.
ENGL 320 Structure of English 3 cr.
ENGL 322 Acquisition of Language 3 cr.
ENGL 360 Theory and Methodology of TESOL 3 cr.
ENGL 373 Techniques in Tutoring: TESOL Practicum 3 cr.
ENGL 420 Pedagogical Grammar 3 cr.
PSYC 315 Psychological Measurement and Evaluation 3 cr.
COMD 263 Phonetics 3 cr.
Cultural Component 6-8 cr. hrs.
Choose one of the following four ways to fulfill this component:
1. Foreign Language 6-8 cr. hrs.
Course work to fulfill the Cultural Component must be in one language; test out credits must be supplemented by 3
credits at the 200 level or above. The Cultural Component requirement may be fulfilled with course work in the same language as that required for the Foreign Language requirement or in a different language, but additional foreign language course work must be beyond that required for the Bachelor of Science or Bachelor of Arts degree. Alternative cultural component features for international students: International students who select this major generally have learning circumstances and career goals that differentiate them from native English speakers. Therefore, course work in English (6-8 credits at the 200-level or above) selected in consultation with the advisor must be used to fulfill the cultural component. (In the case of fluency in English, an international student may request to do the cultural component foreign language option in a language other than English.)

2. **ENGL 378 or any 378, Semester Abroad Research 6 cr. hrs.**
3. **INTS 377 Semester Abroad 6 cr. hrs.**

4. Select two of the following courses: 6 cr. hrs.
   - ENGL 379 Cooperative Education and Internship II 3 cr.
   - ENGL 450 Non-Native Speakers in the Midwest 3 cr.
   - ENGL 471 Issues in Bilingualism 3 cr.
   - MODL 376 Mexico: A Cultural Experience 3 cr.

**Directed Electives: 6 cr. hrs.**
Choose from the following:
- ECON 312; ENGL 206, 441, 442, 443; ETHN 200; HIST 204, 208; PHIL 245; POLS 212; GEOG 342, 343, 344; COMD 162, 163, 469; PSYC 236, 305, 320; SOWK 260; SOCI/ANTH 205, 211, 221, 225, 228; SPAN 341, 342, 345, 346, 350; FREN 341, 342, 350, 351, 352, 401, 451, 452, 453, 490; GERM 315, 341, 342, 350, 351, 352, 401, 451, 452, 453, 499; SCTA 306, 313, 340; SOCI 205; TED 461.

**TESOL Minor - Liberal Arts**

**TESOL Minor - Liberal Arts: 24 Total Credits**

**Foreign Language Requirement: (6 cr. hrs.)**
(credits not counted in minor)
6 semester hours of a foreign language, the high school equivalent, or proven proficiency in a foreign language is required of all students pursing a TESOL minor. This foundation requirement is not included in the number of credit hours needed for the minor proper. If English is not your native language, you have already fulfilled this requirement.

**Required Courses: 21 cr. hrs.**
- ENGL 311 Introduction to Language and Linguistics 3 cr.
- ENGL 320 Structure of English 3 cr.
- ENGL 322 Acquisition of Language 3 cr.
- ENGL 360 Theory and Methodology of TESOL 3 cr.
- ENGL 373 Techniques in Tutoring: TESOL Practicum 3 cr.
- ENGL 420 Pedagogical Grammar 3 cr.
- PSYC 315 Psychological Measurement and Evaluation 3 cr.

**Directed Electives: 3 cr. hrs.**
Choose from the following:
- ECON 312; ENGL 206, 441, 442, 443, 450, 471; ETHN 200; HIST 204, 208; PHIL 245; POLS 212; GEOG 342, 343, 344; COMD 162, 163, 469; PSYC 236, 305, 320; SOWK 260; SOCI/ANTH 205, 211, 221, 225, 228; SPAN 341, 342, 345, 346, 350; FREN 341, 342, 350, 351, 352, 401, 451, 452, 453, 490; GERM 315, 341, 342, 350, 351, 352, 401, 451, 452, 453, 499; SCTA 306, 313, 340; SOCI 205; TED 461.

**TESOL Major - Education**

**TESOL Major-Education 36-38 Total Credits**

**Foreign Language Requirement: 6 cr. hrs.**
(credits not counted in major)
6 semester hours of a foreign language, the high school equivalent, or proven proficiency in a foreign language is required of all students pursuing a TESOL major. This foundation requirement is not included in the number of credit hours needed for the major proper. The 6 semester hours are separate from the Cultural Component. A first language
used by a major who is a non-native speaker of English to satisfy this language requirement cannot be used as the basis for satisfying the cultural requirement below; study in the English language should be used for such a student or, in the case of fluency in English, the student may request to do the cultural component in a language other than English or the student’s native language. In the case of fluency in both English and a native language, a student may elect to satisfy this language requirement by a third language.

**Required courses: 21 cr. hrs.**
ENGL 311 Introduction to Language and Linguistics 3 cr.
ENGL 320 Structure of English 3 cr.
ENGL 322 Acquisition of Language 3 cr.
ENGL 360 Theory and Methodology of TESOL 3 cr.
ENGL 373 Techniques in Tutoring: TESOL Practicum 3 cr.
ENGL 420 Pedagogical Grammar 3 cr.
COMD 263 Phonetics 3 cr.

**Directed Electives: 9 cr. hrs.**
Choose from the following:
ECON 312; ENGL 206, 441, 442, 443; ETHN 200; HIST 204, 208; PHIL 245; POLS 212; GEOG 342, 343, 344; COMD 162, 163, 469; PSYC 236, 305, 320; SOWK 260; SOCI/ANTH 205, 211, 221, 225, 228; SPAN 341, 342, 345, 346, 350; FREN 341, 342, 350, 351, 352, 401, 451, 452, 453, 490; GERM 315, 341, 342, 350, 351, 352, 401, 451, 452, 453, 499; SCTA 306, 313, 340; SOCI 205; TED 461.

**Required for certification (not counted in major):**
TED 428 Techniques of Elementary/Middle/Secondary Education: TESOL 3 cr.

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**TESOL Minor - Education**

**TESOL Minor - Education: 24 Total Credits**

**Foreign Language Requirement: 6 cr. hrs.**
(credits not counted in minor)

6 semester hours of a foreign language, the high school equivalent, or proven proficiency in a foreign language is required of all students pursuing a TESOL major. This foundation requirement is not included in the number of credit hours needed for the major proper. The 6 semester hours are separate from the Cultural Component. A first language used by a major who is a non-native speaker of English to satisfy this language requirement cannot be used as the basis for satisfying the cultural requirement below; study in the English language should be used for such a student or, in the case of fluency in English, the student may request to do the cultural component in a language other than English or the student’s native language. In the case of fluency in both English and a native language, a student may elect to satisfy this language requirement by a third language.

**Required Courses: 18 cr. hrs.**
ENGL 311 Introduction to Language and Linguistics 3 cr.
ENGL 320 Structure of English 3 cr.
ENGL 322 Acquisition of Language 3 cr.
ENGL 360 Theory and Methodology of TESOL 3 cr.
ENGL 373 Techniques in Tutoring: TESOL Practicum 3 cr.
ENGL 420 Pedagogical Grammar 3 cr.

**Directed Electives: 6 cr. hrs.**
Choose from the following:
ECON 312; ENGL 206, 441, 442, 443, 450, 471; ETHN 200; HIST 204, 208; PHIL 245; POLS 212; GEOG 342, 343, 344; COMD 162, 163, 469; PSYC 236, 305, 320; SOWK 260; SOCI/ANTH 205, 211, 221, 225, 228; SPAN 341, 342, 345, 346, 350; FREN 341, 342, 350, 351, 352, 401, 451, 452, 453, 490; GERM 315, 341, 342, 350, 351, 352, 401, 451, 452, 453, 499; SCTA 306, 313, 340; SOCI 205; TED 461.

**Required for certification (not counted in minor):**
TED 428 Techniques of Elementary/Middle/Secondary Education: TESOL 3 cr.
Theatre Arts
Department of Speech Communication and Theatre Arts
College of Arts and Sciences

B-24 Kleinpell Fine Arts Building
(715) 425-3971
www.uwrf.edu/scta/

Barbara L. Werner - Chair, Suzanne Hagen, Robin Murray, James Pratt, Ronald Snell, Kenneth Stofferahn, Margaret M. Swanson, James Zimmerman

Theatre Arts Major–Liberal Arts B.S.

Theatre Arts Major 36 Total Credits

Required Courses: 23 cr. hrs.
SCTA 121 Acting I: Basic Techniques 3 cr.
SCTA 131 Design for the Theatre 3 cr.
SCTA 288 Career Development: Theatre Arts 1 cr.
SCTA 335 Directing I 3 cr.
SCTA 337 History of Theatre-Ancient through Renaissance 3 cr.
SCTA 338 History of Theatre-18th Century to Present 3 cr.
or SCTA 339 American Theatre
SCTA 379 Internship 3-12 cr.
SCTA 499 Independent Study/Independent Research 1-3 cr.
SCTA 484 Senior Portfolio Seminar in SCTA 1 cr.

Directed Electives: 9 cr. hrs.
Determined in consultation with advisor, depending on student focus

Choose one from the following:
SCTA 231 Stage Technology and Scene Painting 3 cr.
SCTA 332 Stage Costuming 3 cr.
SCTA 333 Stage Lighting 3 cr.

Choose one from the following:
SCTA 221 Acting II: Characterization 3 cr.
SCTA 222 Voice and Articulation 3 cr.
SCTA 223 Oral Interpretation of Literature 3 cr.
SCTA 435 Directing II 3 cr.

Choose one from the following:
SCTA 230 Playwrights of Color 3 cr.
SCTA 334 Playwriting 3 cr.
SCTA 336 Costume and Fashion: Mirror of History 3 cr.
SCTA 338 History of Theatre-18th Century to Present 3 cr.
SCTA 339 American Theatre 3 cr.

Directed Electives: 4 cr. hrs.
SCTA 232 Makeup for Theatre, Film, and Video 3 cr.
SCTA 271 Summer Theatre 1-3 cr.
SCTA 323 Arts Management 3 cr.
SCTA 327 Children’s Theatre and Puppetry 3 cr.
SCTA 328 Creative Dramatics for Children and Special Populations 3 cr.
SCTA 375 Theatre Practicum: Production 1 SCTA 376 Theatre Practicum: Design and Technology 1 cr.
Theatre Arts Minor–Liberal Arts B.S.

Minor in Theatre Arts–Liberal Arts B.S. 24 Total Credits

Required Courses: 15 cr. hrs.
SCTA 121 Acting I: Basic Techniques 3 cr.
SCTA 131 Design for the Theatre 3 cr.
SCTA 335 Directing I 3 cr.

Choose one from the following:
SCTA 231 Stage Technology and Scene Painting 3 cr.
SCTA 332 Stage Costuming 3 cr.
SCTA 333 Stage Lighting 3 cr.

Choose one from the following:
SCTA 337 History of Theatre, Ancient through Renaissance 3 cr.
SCTA 338 History of Theatre-18th Century to Present 3 cr.
SCTA 339 American Theatre 3 cr.

Directed Electives: 9 cr. hrs.
SCTA 221 Acting II: Characterization 3 cr.
SCTA 222 Voice and Articulation 3 cr.
SCTA 223 Oral Interpretation of Literature 3 cr.
SCTA 230 Playwrights of Color 3 cr.
SCTA 231 Stage Technology and Scene Painting (if not chosen under required) 3 cr.
SCTA 232 Makeup for Theatre, Film, and Video 3 cr.
SCTA 271 Summer Theatre 1-3 cr.
SCTA 288 Career Development: Theatre Arts 1 cr.
SCTA 323 Arts Management 3 cr.
SCTA 327 Children’s Theatre and Puppetry 3 cr.
SCTA 328 Creative Dramatics for Children and Special Populations 3 cr.
SCTA 332 Stage Costuming (if not chosen under required) 3 cr.
SCTA 333 Stage Lighting (if not chosen under required) 3 cr.
SCTA 334 Playwriting 3 cr.
SCTA 336 Costume and Fashion: Mirror of History 3 cr.
SCTA 375 Theatre Practicum: Production 1 cr.
SCTA 376 Theatre Practicum: Design and Technology 1 cr.
SCTA 435 Directing II 3 cr.
SCTA 379 Internship in SCTA 3-12 cr.
SCTA 499 Independent Study/Independent Research 1-3 cr.

A research/writing course experience is required in the major or another field; SCTA 284 Sophomore Seminar or another course approved by the department chair, will satisfy this requirement. A senior portfolio experience is required in the major or another field; SCTA 484, Senior Portfolio experience is required in the major or another field; SCTA 484, Senior Portfolio Seminar or another course approved by the department chair, will satisfy this requirement.
Program Descriptions

Viewing Options

- Display program descriptions in a single window (best for printing)
- Display this page with course descriptions in right-hand column

This is an evolving on-line catalog...

- THIS PROGRAM AND COURSE CATALOG INFORMATION IS UPDATED THROUGHOUT THE ACADEMIC YEAR AS NEEDED.
- Information on this catalog reflects the most up to date information approved for the Web.
- Program modifications may have occurred that are NOT reflected in this on-line document.
- Course listings are updated regularly.
- Program listings will be reviewed and updated annually.
- Page numbers refer to the 2003-2005 print edition of this catalog.
- It may be necessary to refer to the most current edition of the printed catalog for information not available on this site.
- Please consult with your academic adviser regarding academic requirements.

MISSION

ACCREDITATIONS AND MEMBERSHIPS

THE GENERAL EDUCATION PROGRAM

SUMMARY OF COLLEGES, DEPARTMENTS AND MAJORS

ACCOUNTING (ACCT)
AGRICULTURAL ECONOMICS (AGEC)
AGRICULTURAL EDUCATION (AGED)
AGRICULTURAL ENGINEERING TECHNOLOGY (AGEN)
AG STUDIES
AGRONOMY (AGRN)
ANIMAL SCIENCE (ANSC)
ANTHROPOLOGY (ANTH)
ART (ART)
BIOLOGY (BIOL)
BIOTECHNOLOGY (BIOT)
BUSINESS ADMINISTRATION
CHEMISTRY (CHEM)
COACHING
COMMUNICATIVE DISORDERS
COMPUTER SYSTEMS (CSIS)
CONSERVATION
CRIMINAL JUSTICE (CJ)
CROPS AND SOILS
DAIRY SCIENCE (DASC)
DANCE EDUCATION (DANC)
EARLY CHILDHOOD CERTIFICATION
EARTH SCIENCE
ECONOMICS (ECON)
ELEMENTARY EDUCATION (TED)
ENGLISH (ENGL)
ENVIRONMENTAL SCIENCE
ETHNIC STUDIES (ETHN)
FARM MANAGEMENT
FILM STUDIES (FILM)
FOOD SCIENCE AND TECHNOLOGY (FDSC)
GEOGRAPHY (GEOG)
GEOLOGY (GEOL)
HEALTH AND HUMAN PERFORMANCE
HISTORY (HIST)
HONORS (HON)
HORTICULTURE (HORT)
HYDROGEOLOGY
INTERNATIONAL STUDIES (INTS)
JOURNALISM (JOUR)
LAND USE PLANNING
LANGUAGE ARTS READING
MARKETING COMMUNICATIONS (MARC)
MASS COMMUNICATION
MATHEMATICS
MODERN LANGUAGE (MODL)
MUSIC (MUS/MUSE/MUSA)
MUSICAL THEATRE
OUTDOOR EDUCATION
PHILOSOPHY (PHIL)
PHYSICS (PHYS)
POLITICAL SCIENCE (POLS)
PROFESSIONAL AND ORGANIZATIONAL COMMUNICATION
PROFESSIONAL WRITING
PSYCHOLOGY (PSYC)
SCIENCE, BROAD FIELD
SCIENCE, GENERAL
SECONDARY EDUCATION
SOCIOLOGY
SOCIAL SCIENCE
SOCIAL STUDIES, BROAD FIELD
SOCIAL WORK (SOWK)
SOIL SCIENCE (SOIL)
SPEECH COMMUNICATION AND THEATRE ARTS (SCTA)
TEACHING ENGLISH TO SPEAKERS OF OTHER LANGUAGES
THEATRE ARTS
WOMEN'S STUDIES
Women's Studies (WMST)
Interdisciplinary Program

B23 Kleinpell Fine Arts Building
(715) 425-4895
www.uwrf.edu/womens_studies/

Barbara Werner–Coordinator

A minor in women’s Studies presents students with the following: past and present scholarship on women; a methodology which treats the experience of both genders as equal in value and scholarly importance; and opportunities to conduct interdisciplinary research in women’s studies. The minor consists of a core unit and elective courses, many of which are multidisciplinary.

Women’s Studies Minor

Minor in Women’s Studies 23 Total Credits

Required Courses 3 cr. hrs.
WMST 200 Introduction to Women’s Studies 3 cr.

Directed Electives–select at least 6 courses from the following: 20 cr. hrs.
WMST 205 Women’s History: United States 3 cr.
WMST 206 Family Communication 3 cr.
WMST 214 Women in Literature 3 cr.
WMST 220 Gender Issues in Science 3 cr.
WMST 221 Global Perspectives on Women 3 cr.
WMST 235 American Autobiography 3 cr.
WMST 300 Women and Film 3 cr.
WMST 303 Women’s History: Europe 3 cr.
WMST 305 Women’s History: Global Perspectives 3 cr.
WMST 314 Women and Politics 3 cr.
WMST 323 Sociology of the Family 3 cr.
WMST 326 Sociology of Gender Roles 3 cr.
WMST 354 Women and the Law 3 cr.
WMST 379 Internship in Women’s Studies 2-3 cr.
WMST 389 Topics in Women’s Studies .5-3 cr.
WMST 440 Gender Communication 3 cr.
WMST 443 American Ethnic Women Writers 3 cr.
WMST 499 Directed Studies 1-3 cr.
BLAW 389 Special Topics in Business Law: Sexual Harassment and the Law 1 cr.
ECON 312 Political Economy of Discrimination 3 cr.
HEAL 460 Teaching of Family Life and Sex Education 2 cr.
PSYC 225 Psychology of Sex Differences 3 cr.
### ACCT

<table>
<thead>
<tr>
<th>Catalog Nbr</th>
<th>Course Title Long</th>
<th>Course Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>201</td>
<td>Survey of Accounting</td>
<td>A survey course designed for non-business majors who realize the value of possessing basic accounting knowledge. This course takes the student through the basics: What accounting information is, what it means and how it is used. Students examine financial statements and discover what they do and do not communicate. This course may not be used to meet the credit requirements in the Accounting and Business Administration major. This course fulfills the accounting requirements for a business minor. Technological prerequisite: Basic knowledge of Windows operating systems and the Microsoft Office suite. (Sp)</td>
</tr>
<tr>
<td>231</td>
<td>Principles of Accounting I</td>
<td>Introduction to financial accounting as an information system, double-entry, business income, accounting cycle, assets, liabilities, capital, and retained earnings. Prerequisite: second semester freshman standing. Technological prerequisite: Basic knowledge of Windows operating systems and the Microsoft Office suite. (F, Sp, SS)</td>
</tr>
<tr>
<td>232</td>
<td>Principles of Accounting II</td>
<td>Introduction to the information needs of internal management for decision making; use and interpretation of accounting data in the planning and controlling of business activities, cost accounting, variance and statement analysis, and statement of cash flows. Prerequisite: ACCT 231. Technological prerequisite: Basic knowledge of Windows operating systems and the Microsoft Office suite. (F, Sp, SS)</td>
</tr>
<tr>
<td>279</td>
<td>Cooperative Education &amp; Internship</td>
<td></td>
</tr>
<tr>
<td>289</td>
<td>Special Topics in Accounting</td>
<td></td>
</tr>
<tr>
<td>321</td>
<td>Intermediate Accounting I</td>
<td>This course is designed to provide an in-depth study of current financial accounting theory and concepts. Generally accepted accounting principles applicable to business income measurement, the related asset and equity valuations, and reporting and disclosure requirements are developed in the context of present day accounting practice. Prerequisite: ACCT 232. Technological prerequisite: Basic knowledge of Windows operating systems and the Microsoft Office suite. (F)</td>
</tr>
<tr>
<td>322</td>
<td>Intermediate Accounting II</td>
<td>This course is a continuation of Accounting 321. The focus in this class is on accounting relating to business enterprisesA? decisions concerning financing, acquisitions, presentation of information in financial statements, and financial statement analysis. Areas studied include accounting theory and practice pertaining to bonds, stockholdersA? equity, including transactions regarding issuing stock, purchasing treasury stock, dividends, stock splits, and retained earnings, basic and fully diluted earnings per share and dilutive securities. Prerequisite: ACCT 321. Technological prerequisite: Basic knowledge of Windows operating systems and the Microsoft Office suite. (Sp)</td>
</tr>
<tr>
<td>324</td>
<td>Non-Profit Accounting</td>
<td>Non-profit accounting focuses on the study of accounting procedures and financial statement presentation for the federal, state and local governments and on organizations who have been specifically created to be nonprofit, i.e., colleges and universities, health and welfare agencies, and churches. Prerequisite: ACCT 232.</td>
</tr>
<tr>
<td>356</td>
<td>Managerial Cost Accounting</td>
<td>Concepts and techniques of reporting to internal users of financial information will be emphasized along with planning and control, product costing and special decisions. Prerequisite: ACCT 232. Technological prerequisite: Basic knowledge of Windows operating systems and the Microsoft Office suite. (F)</td>
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