ACTUARIAL SCIENCE, COMPREHENSIVE MAJOR

Liberal Arts (Code 182-001)

University Requirements

GRADUATION REQUIREMENTS FOR BACCALAUREATE DEGREE

Credit Requirements

Minimum total for graduation 1 120
Upper division credits (courses numbered 300 and higher) 39
Liberal Education Core (http://catalog.uwec.edu/undergraduate/graduation-requirements/#header1) 36
Academic Concentrations (http://catalog.uwec.edu/undergraduate/graduation-requirements/#header16) 2
Grade Point Requirements (http://catalog.uwec.edu/undergraduate/graduation-requirements/#header14) 2
Total 2.00 average
Resident 2.00 average
Major 2.00 average
Minor 2.00 average
Certificate 2.00 average

Procedures Required for Graduation

Obtain admission to the degree program and/or the College offering it.
Apply for graduation on CampS.

1 Certain programs exceed this minimum.
2 See special requirements in each College.

Applicability of Credits Toward Graduation

Junior College or Two-Year College Credits. A maximum of 72 semester credits earned in a junior college or two-year college will be accepted as degree credits at UW-Eau Claire.

Extension Credits. Credits earned in credit outreach courses offered by UW-Eau Claire are treated as resident credits. Credits earned in extension courses offered by other units of the University of Wisconsin System are treated as transfer credits. All other (non-UW) extension and correspondence credits are normally limited to one-fourth of the total required for graduation from any curriculum.

WTCS Credits. A maximum of 72 semester credits earned in college parallel programs at Madison Area Technical College, Milwaukee Area Technical College, Nicolet Area Technical College, or Chippewa Valley Technical College may be accepted as degree credits at UW-Eau Claire. A set number of general education courses will be accepted from other technical schools. Occupational and technical courses may also be considered for transfer if the quality and content of the course work from the technical college is judged to be comparable to course work at UW-Eau Claire. Refer to the Transfer Credit Wizard (https://my.uwec.edu/psp/PUBLIC/EMPLOYEE/HRMS/c/EAU_SS_CUSTOM.EAU_TRNCRDWZ.GBL) or contact the UW-Eau Claire Admissions Office for information about the current transfer policy.

USAFI Credit. UW-Eau Claire will accept up to 32 semester credits for work done through the United States Armed Forces Institute, under the provision for non-UW correspondence credit (see Extension Credits above).

Activity Credit (band, chorus, drama, KINS 100-184 courses) Students may count toward graduation no more than one credit of KINS 110-184 courses. Students may count toward graduation no more than four credits earned in any single activity course and no more than 12 credits resulting from any combination of activity courses (excluding KINS 110-184 courses).

Other Restricted Credits. For other University restrictions, see the following: Cooperative Education; Credit by Examination; Satisfactory/Unsatisfactory Registration; Transfer of Credits. College or departmental restrictions may also be placed on Independent Study (399-499 courses), Directed Study (395-495), and other types of credits.

APPLICABILITY OF CREDITS TOWARD GRADUATION

Credit Restrictions

Satisfactory/Unsatisfactory
Total degree credit maximum 12
Major, Standard maximum 1 course
Major, Comprehensive maximum 2 courses
Minor maximum 1 course
Credit by Examination
Total degree credit maximum ¼ of total
Major or minor maximum ½ of total
Two-Year College Credits
Total degree credit maximum 72 credits
Activity credit (band, chorus, drama, KINS 100-184)
Total KINS 100-184 maximum 1 credit
Total Band, chorus, drama maximum 12 credits
Single course band, chorus, drama maximum 4 credits

Extension credits
UW-System no maximum
Other extension/correspondence maximum ¼ of total

USAFI
USAFI maximum 32 credits

Liberal Education Core

The University of Wisconsin-Eau Claire measures learning outcomes to ensure that its graduates have achieved a liberal education and prepared themselves to contribute to a complex society. Upon graduation, each undergraduate
will have met the four learning goals of our liberal education core and the 11 learning outcomes they comprise.

**LIBERAL EDUCATION CORE REQUIREMENTS**

**Knowledge Goal**

Knowledge Outcome 1 (K1): Natural Sciences (http://catalog.uwec.edu/undergraduate/attribute-k1/)

Two (2) learning experiences

One experience in laboratory science must be selected from either K1 or K2.

Knowledge Outcome 2 (K2): Social Sciences (http://catalog.uwec.edu/undergraduate/attribute-k2/)

Two (2) learning experiences

One experience in laboratory science must be selected from either K1 or K2.

Knowledge Outcome 3 (K3): Humanities (http://catalog.uwec.edu/undergraduate/attribute-k3/)

Two (2) learning experiences

Knowledge Outcome 4 (K4): Fine Arts (http://catalog.uwec.edu/undergraduate/attribute-k4/)

One (1) learning experience

**Skills Goal**

Skills Outcome 1 (S1): Written and Oral Communication (http://catalog.uwec.edu/undergraduate/attribute-s1/)

Two (2) learning experiences

One S1 must meet the University Writing Requirement (http://catalog.uwec.edu/undergraduate/graduation-requirements/#header10)

Skills Outcome 2 (S2): Mathematics (http://catalog.uwec.edu/undergraduate/attribute-s2/)

One (1) learning experience

One S2 to meet the University Mathematics Requirement

Skills Outcome 3 (S3): Creativity (http://catalog.uwec.edu/undergraduate/attribute-s3/)

One (1) learning experience

**Responsibility Goal**

Responsibility Outcome 1 (R1): Equity, Diversity, and Inclusivity (http://catalog.uwec.edu/undergraduate/attribute-r1/)

Two (2) learning experiences

One R1 must satisfy Design for Diversity (http://catalog.uwec.edu/undergraduate/attribute-DDIV/#header13)

Responsibility Outcome 2 (R2): Global Perspectives (http://catalog.uwec.edu/undergraduate/attribute-r2/)

One (1) learning experience

Responsibility Outcome 3 (R3): Civic and Environmental Issues (http://catalog.uwec.edu/undergraduate/attribute-r3/)

One (1) learning experience

**Integration Goal**

Integration Outcome 1 (I1): Integration (http://catalog.uwec.edu/undergraduate/attribute-i1/)

Two (2) learning experiences

**Service-Learning Goal**

Service-Learning (http://catalog.uwec.edu/undergraduate/attribute-SL/#header13)

30 hours

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**College Degree Requirements**

**Bachelor of Arts or Bachelor of Science Degree (B.A./B.S.)**

**University Graduation Requirements.** All candidates for degrees must fulfill the requirements for credits, curriculum, GPA, and University residency as specified in the section of this catalog titled University Graduation Requirements (http://catalog.uwec.edu/undergraduate/graduation-requirements/).

**College Graduation Requirements: Grade Point Averages.** All candidates for degrees in the College of Arts and Sciences must earn minimum resident and total GPAs of 2.00 in the major, the minor, and the certificate. The resident and total GPAs for the major are computed using all attempted credits applicable to the major including those offered by departments other than the major department. The resident and total GPAs for the minor and the certificate are computed similarly.

**Major-Minor and Major-Certificate Requirements.** A standard major (a minimum of 36 credits) must be supplemented by a minor (a minimum of 24 credits) or by a certificate (12 to 18 credits) to meet graduation requirements for completing a first and second degree program. No minor or certificate is required with a Comprehensive Major (60 or more credits) or with two majors of 36 or more credits each.

Certain degree programs, which include Comprehensive Majors, may require more than the minimum of 120 credits for graduation.

Acceptable academic program combinations are determined at the college level. A major and a minor or a major and certificate or two majors (if available) may not be elected in the same department or program, except in the approved combinations listed here (http://catalog.uwec.edu/undergraduate/arts-sciences/academicprogramstext).

**College Credits.** Earn at least 90 credits in courses offered by the College of Arts and Sciences.

**Bachelor of Arts Degree in the College of Arts and Sciences (B.A.)**

Fulfillment of all University Graduation Requirements (which includes the Liberal Education Core); all College-level degree requirements (major and minor/certificate emphases, GPAs, earning at least 90 credits in Arts and Sciences course work); foreign language competency at the 102 level. Foreign language competency may be met in one of two ways: (1) Achieve a score on the foreign language placement test that qualifies the student to enter the 201-level course in a foreign language. (2) Earn a grade of at least C (not C-) or a mark of S in a 102-level foreign language course (or AIS 112 or AIS 122 / LANG 122 or CSD 103).

**Bachelor of Science Degree in the College of Arts and Sciences (B.S.)**

Fulfillment of all University Graduation Requirements (which includes the Liberal Education Core); all College-level degree requirements (major and minor/certificate emphases, GPAs, earning at least 90 credits in Arts and Sciences course work); mathematics competency at the MATH 111, MATH 112 or MATH 113 level. Mathematics competency can be met in one of three ways: (1) Achieve a score on the mathematics placement test that qualifies the student to enter MATH 114. (2) Earn a grade of at least C (not C-) or a mark of S in MATH 111, MATH 112, or MATH 113. (3) Achieve a satisfactory score on the
MATH 112 competency test. This test may be attempted no more than two times.

## Major Requirements

### Liberal Arts (Code 182-001)

This major prepares students for actuarial careers. Actuaries are business professionals who use mathematical models to evaluate the current financial impact of future contingent events. Actuaries work in a variety of settings including insurance companies, public accounting firms, government agencies, banks, and consulting firms.

Entry Requirements: To be admitted to this major students must:

1. Complete at least 15 credits of courses required for the major with a GPA in those courses of at least 3.0.
2. Complete MATH 346 and MATH 350 with a grade of B- or better, or earn a passing grade on the corresponding actuarial professional exam(s)

A minimum of 64 semester credits, including:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>MATH 114</td>
<td>Calculus I</td>
<td>4</td>
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<tr>
<td>MATH 150</td>
<td>Introduction to the Actuarial Career</td>
<td>1</td>
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<tr>
<td>MATH 215</td>
<td>Calculus II</td>
<td>4</td>
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<tr>
<td>MATH 216</td>
<td>Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>MATH 346</td>
<td>Introduction to Probability</td>
<td>4</td>
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<td>MATH 347</td>
<td>Mathematical Statistics</td>
<td>4</td>
</tr>
<tr>
<td>MATH 350</td>
<td>Introduction to Financial Mathematics</td>
<td>4</td>
</tr>
<tr>
<td>MATH 450</td>
<td>Foundations of Actuarial Science</td>
<td>4</td>
</tr>
<tr>
<td>MATH 312</td>
<td>Differential Equations and Linear Algebra</td>
<td>4</td>
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<tr>
<td>or MATH 324</td>
<td>Linear Algebra</td>
<td></td>
</tr>
<tr>
<td>ECON 103</td>
<td>Principles of Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 303</td>
<td>Intermediate Microeconomic Theory</td>
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</tr>
<tr>
<td>ECON 104</td>
<td>Principles of Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 304</td>
<td>Intermediate Macroeconomic Theory</td>
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<tr>
<td>MATH 441</td>
<td>Linear Regression Analysis, with Time Series</td>
<td>3-4</td>
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<td>or ECON 316</td>
<td>Econometrics</td>
<td></td>
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<tr>
<td>ACCT 201</td>
<td>Introduction to Accounting</td>
<td>3</td>
</tr>
<tr>
<td>IS 240</td>
<td>Information Systems in Business</td>
<td>3</td>
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<tr>
<td>BCOM 206</td>
<td>Business Writing</td>
<td>2</td>
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<tr>
<td>or BCOM 207</td>
<td>Business Presentations</td>
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<tr>
<td>FIN 320</td>
<td>Principles of Finance</td>
<td>3</td>
</tr>
<tr>
<td>FIN 327</td>
<td>Long Term Financial Management</td>
<td>3</td>
</tr>
</tbody>
</table>

At least two courses from the following:

<table>
<thead>
<tr>
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<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 460</td>
<td>Contingent Payment Analysis</td>
</tr>
<tr>
<td>MATH 470</td>
<td>Mathematical Models for Financial Economics</td>
</tr>
<tr>
<td>MATH 475</td>
<td>Actuarial Foundations of Short-Term Coverages</td>
</tr>
</tbody>
</table>