MATHEMATICS, MAJOR - TEACHING

Teaching (Code 180-207)

University Requirements

GRADUATION REQUIREMENTS FOR BACCALAUREATE

DEGREE

Credit Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum total for graduation</td>
<td>120</td>
</tr>
<tr>
<td>Upper division credits (courses numbered 300 and higher)</td>
<td>39</td>
</tr>
<tr>
<td>Liberal Education Core (<a href="http://catalog.uwec.edu/undergraduate/graduation-requirements/#header1">http://catalog.uwec.edu/undergraduate/graduation-requirements/#header1</a>)</td>
<td>36</td>
</tr>
<tr>
<td>Academic Concentrations (<a href="http://catalog.uwec.edu/undergraduate/graduation-requirements/#header16">http://catalog.uwec.edu/undergraduate/graduation-requirements/#header16</a>)</td>
<td></td>
</tr>
<tr>
<td>Grade Point Requirements (<a href="http://catalog.uwec.edu/undergraduate/graduation-requirements/#header14">http://catalog.uwec.edu/undergraduate/graduation-requirements/#header14</a>)</td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Credit Restrictions</th>
<th>Total degree credit</th>
<th>Major, Standard</th>
<th>Major, Comprehensive</th>
<th>Minor</th>
<th>Major or minor</th>
<th>Total KINS 100-184</th>
<th>Total Band, chorus, drama</th>
<th>Single course band, chorus, drama</th>
<th>Extension credits</th>
<th>USAFI</th>
</tr>
</thead>
<tbody>
<tr>
<td>Satisfactory/Unsatisfactory</td>
<td>maximum 12</td>
<td>maximum 1 course</td>
<td>maximum 2 courses</td>
<td>maximum ½ of total</td>
<td>maximum 1 credit</td>
<td>maximum 12 credits</td>
<td>maximum 4 credits</td>
<td>maximum 4 of total</td>
<td>no maximum</td>
<td>maximum 32 credits</td>
</tr>
<tr>
<td>Total KINS 100-184</td>
<td>maximum 72 credits</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Band, chorus, drama</td>
<td></td>
<td>maximum 12 credits</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Single course band, chorus, drama</td>
<td></td>
<td>maximum 4 credits</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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 [http://catalog.uwec.edu/undergraduate/graduation-requirements/#header11]

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

College Degree Requirements

University Requirements in Teacher Education in the College of Education and Human Sciences

College Requirements for Teacher Education
All candidates for teacher education baccalaureate degrees must also meet the following:

1. Liberal Education requirements in the College of Education and Human Sciences.
2. Grade point requirements:
   - Resident 2.75 average
   - Total 2.75 average
   - Major 2.75 average
   - Minor (for certification only) 2.75 average
3. Residency requirements:
   - Minimum Total 30 credits
   - Senior Year 23 credits
   - Major, in upper division courses 12 credits
   - Comprehensive Major, in upper division courses 21 credits
4. Criteria and requirements for Professional Programs and for Admission to the Professional Semester.
5. Specific requirements of programs offered in the College of Education and Human Sciences. (See the departmental sections of this catalog.)

Early Adolescence Through Adolescence and Early Childhood through Adolescence
(formerly Secondary Education and Special Subjects)

Liberal Education Requirements are listed in the table below

<table>
<thead>
<tr>
<th>Liberal Education Requirements are listed in the table below</th>
</tr>
</thead>
<tbody>
<tr>
<td>K2 (Social Sciences)</td>
</tr>
<tr>
<td>PSYC 260 Educational Psychology</td>
</tr>
<tr>
<td>AND another learning experience</td>
</tr>
<tr>
<td>S3 (Creativity)</td>
</tr>
<tr>
<td>ES 497 Field Experience Seminar (included in major)</td>
</tr>
<tr>
<td>R1 (Equity, Diversity, Inclusivity)</td>
</tr>
<tr>
<td>ES 385 Social Foundations: Human Relations (included in major)</td>
</tr>
<tr>
<td>AND another learning experience</td>
</tr>
<tr>
<td>I1 (Integration)</td>
</tr>
<tr>
<td>ES 497 Field Experience Seminar (included in major)</td>
</tr>
<tr>
<td>AND another learning experience</td>
</tr>
</tbody>
</table>
Teaching Licensure Requirements - EA-A Licensure
Program Options B and C

These program options are organized around content majors and education courses and are designed to prepare teachers for early adolescence through adolescence (EA-A) teaching or for early childhood through adolescence (EC-A) teaching in selected areas. Each program requires the student to complete:

1. a comprehensive major (at least 60 credits) or a standard major (at least 36 credits) plus one of the following: another standard major (at least 36 credits), or a minor (at least 24 credits), or a certificate (12-18 credits). Students choosing another major or minor may choose from the approved majors and minors listed in the table below, but are not required to do so. Students pursuing EA-A licensure are not required to elect a second plan that leads to certification.

2. a professional sequence consisting of teaching methods and related courses.

Students are assigned an education academic advisor and a faculty advisor through the content major department.

Option B: EA-A
Early Adolescence through Adolescence Licensure

Professional Sequence

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ES 212</td>
<td>Initial Teaching Experience in Elementary, Middle, and High School Settings</td>
<td>2</td>
</tr>
<tr>
<td>ES 312</td>
<td>General Methods of Teaching</td>
<td>2</td>
</tr>
<tr>
<td>ES 317</td>
<td>Middle Level Methods and Curriculum</td>
<td>2</td>
</tr>
<tr>
<td>ES 318</td>
<td>Teacher Assisting</td>
<td>1</td>
</tr>
<tr>
<td>ES 328</td>
<td>Content Area Reading and Study Strategies</td>
<td>2</td>
</tr>
<tr>
<td>ES 385</td>
<td>Social Foundations: Human Relations</td>
<td>3</td>
</tr>
</tbody>
</table>

Prescribed special methods course(s) (see approved majors and minors below)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ES 445</td>
<td>Student Teaching in Middle Level Education and Student Teaching in Secondary Education</td>
<td>6-12</td>
</tr>
<tr>
<td>or ES 446</td>
<td>Internship Teaching in Middle Level Education</td>
<td></td>
</tr>
<tr>
<td>or ES 475</td>
<td>Internship Teaching in Secondary Education</td>
<td></td>
</tr>
<tr>
<td>ES 490</td>
<td>Historical, Legal, and Philosophical Foundations of Education</td>
<td>3</td>
</tr>
<tr>
<td>ES 497</td>
<td>Field Experience Seminar</td>
<td>2</td>
</tr>
<tr>
<td>SPED 300</td>
<td>Inclusive Practices for Secondary Educators</td>
<td>2</td>
</tr>
</tbody>
</table>

Approved Majors and Minors for Option B

<table>
<thead>
<tr>
<th>Comprehensive Majors</th>
<th>Code</th>
<th>Prescribed Methods Course</th>
<th>Additional Requirement</th>
<th>Praxis II Content Test Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>540-006</td>
<td>ENGL 319, ENGL 419</td>
<td></td>
<td>See department for ETS exam number</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Majors</th>
<th>Code</th>
<th>Prescribed Methods Course</th>
<th>Additional Requirements</th>
<th>Praxis II Content Test Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mathematics</td>
<td>180-027</td>
<td>ES 357</td>
<td></td>
<td>See department for ETS exam number</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Minors</th>
<th>Code</th>
<th>Prescribed Methods Course</th>
<th>Additional Requirements</th>
<th>Praxis II or ACTFL Content Test Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coaching</td>
<td>971-403</td>
<td>KINS 492</td>
<td>Study abroad in language</td>
<td>WPT and OPI or OPIc</td>
</tr>
<tr>
<td>German</td>
<td>280-404</td>
<td>ES 366 (F)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Learning Disabilities</td>
<td>950-471</td>
<td></td>
<td></td>
<td>See department for ETS exam number</td>
</tr>
<tr>
<td>Mathematics</td>
<td>180-407</td>
<td>ES 357</td>
<td></td>
<td>See department for ETS exam number</td>
</tr>
<tr>
<td>Spanish</td>
<td>320-405</td>
<td>ES 366 (F)</td>
<td>Study abroad in language</td>
<td>WPT and OPI or OPIc</td>
</tr>
<tr>
<td>Teaching English to Speakers of Other Languages (TESOL)</td>
<td>550-408</td>
<td>ES 405 (F)</td>
<td>1 yr college level foreign language</td>
<td>See department for ETS exam number</td>
</tr>
</tbody>
</table>

Broadfield Science add-on certification is available with these majors and requires ES 360 (fall only). Students should contact their advisor to discuss their intention to add the Broadfield Science certification.

Admission Requirements
Admission to Education Programs
Admission to the Major

Formal application to the professional education program must be made by October 1 for spring admission or March 1 for fall admission. In order to submit an application to an Education Program, students must satisfy all of the requirements listed below:

1. Approval by the appropriate department in the College of Education and Human Sciences. See Education Studies (http://catalog.uwec.edu/undergraduate/education-human-sciences/education-studies/) and Special Education and Inclusive Practices (http://
Admission to the Teaching Professional Semester (Student Teaching)

Admission to the Professional Education Semester

The "professional semester" is defined as the senior semester in which a student is enrolled in the field experience of student teaching or internship.

Filing Applications

Students who plan to enter the professional semester during the fall semester of the next academic year must file an application available at an education "professional semester" meeting held each fall. Students who plan to enter the professional semester during the spring semester of the next academic year must file an application at an education "professional semester" meeting held in spring. Dates for these meetings will be advertised widely and posted across campus.

Students are encouraged to submit their applications as soon as possible after the meeting. Considerable time is required to process each application—that is, to determine eligibility, to make arrangements with schools for an appropriate field experience assignment, and to allow for introductions, orientations, and, in some cases, interviews. Students who file early will benefit by the careful consideration that can be given to their requests; the later an application is received, the fewer the placement assignments and choices still available will be. Failure to file an application on time may result in a delay of the professional semester.

Transfer and Special Students

No transfer or special student can enter the professional semester until after a full semester of residence and after earning a minimum of 15 credits at UW-Eau Claire. Senior transfer students enrolling in September must file an application available at an education "professional semester" meeting held each fall. Students who plan to enter the professional semester during the spring semester of the next academic year must file an application available at an education "professional semester" meeting held each fall. Students who plan to enter the professional semester during the fall semester of the next academic year must file an application at an education "professional semester" meeting held each fall. Students who plan to enter the professional semester during the spring semester of the next academic year must file an application at an education "professional semester" meeting held each fall.

Criteria for Admission

No application for admission to the professional semester will be processed in the case of transfer and special students unless a full semester of residence and a minimum of 15 credits have been earned at UW-Eau Claire.

Factors to be considered in the application for admission to the professional semester are:

1. Criteria for admission to a professional program have been met.
2. Good academic standing, as defined in the catalog section on Academic Standing and Progress.
3. A minimum of 90 credits completed prior to the professional semester.
4. Completion of courses which are prerequisite to field experience. For each program, a list of prerequisite courses is available in the Teacher Education Program Office, Centennial 3102.
5. Approval of the major and minor department(s). Departments may have separate criteria they use to determine approval.
6. Resident and total GPAs of at least 2.75; GPAs of at least 2.75 in the major(s) and minor(s) intended for certification; and a 2.75 or higher GPA based on a combination of all course work in the major, minor (where certifiable), and professional education courses, including PSYC 260. All college-level courses attempted by the student are included when major, minor, and total GPAs are determined for admission to the professional semester and for graduation.
7. Teacher Education Candidates shall demonstrate content area proficiency through one of the following:

Retention in Professional Education Programs

Students who are in good standing in the University but are having difficulty meeting the College of Education and Human Sciences criteria for professional education programs are strongly advised to seek the counsel of their advisor and/or the Associate Dean of the College of Education and Human Sciences regarding their continuation in the program. A student may continue in the program while in good standing or after receiving an Academic Warning (See Academic Standing and Progress). However, if placed on probation or if readmitted after a first suspension, the student may continue in the program only upon recommendation of the department concerned (Education Studies or Special Education and Inclusive Practices). After a second suspension, the student may not continue in the professional education program.

Pre-education status.

3. Students must have attained at least Sophomore Status

4. Minimum total GPA of 2.5. Admission is competitive; thus the minimum GPA does not assure admission to a professional program in education.

5. Met the University Writing Requirement (complete WRIT 114, WRIT 116, WRIT 118, or WRIT 120 or the equivalent earning a C or better)

6. Met the University Mathematics requirements (complete one college-level math course earning C or better)

7. Good academic standing.

8. Complete an introductory education course with a field placement (eg SPED 205, SEIP 208, ES 203, ES 212 or the equivalent) with a grade of B- or better.

9. Specific department criteria are found under the Education Studies and Special Education and Inclusive Practices (http://catalog.uwec.edu/undergraduate/education-human-sciences/special-education-inclusive-practices/Department Overview Pages.

Application Procedure

Formal application to the professional program must be made. The number of students admitted to a program is limited by resources available. Not everyone who applies can be guaranteed admission. See the appropriate section of this catalog for criteria upon which the departmental recommendation will be based. Note that minimum criteria for a department may exceed the minimum criteria listed above.

Students who do not meet all the criteria listed above or who do not receive a favorable departmental recommendation may reapply during a later application period.

Special or Transfer Students

Special students and transfer students who desire to be admitted to the Teacher Education Program in the College of Education and Human Sciences should inform the Admissions Office upon application for admission to the University. They should indicate their area of interest. These students are expected to have a minimum GPA of 2.5.

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Students will earn a minimum 3.0/4.0 GPA in content courses OR through obtaining a passing score on the appropriate Praxis II/ACTFL exam.

For students who neither meet the minimum GPA requirement nor pass the appropriate Praxis II/ACTFL exam after at least two attempts, a content portfolio can be submitted which parallels the content evaluated on the Praxis II/ACTFL exam. The portfolio may only be submitted once. Foreign language majors must earn passing scores on the ACTFL.

8. Completion of the 30 hour Human Relations Fieldwork requirement.
9. Evidence of freedom from tuberculosis. Tests are provided by Student Health Services or results of tests must be provided by the student when filing for the professional semester.
10. Approval by the appropriate departments in the Colleges of Education and Human Sciences and Arts and Sciences.

Deadline for Meeting Criteria
For placements in the fall semester, criteria for which the student is responsible (GPA, TB test, demonstration of content area proficiency through one avenue listed above, any additional Praxis II Content Test(s)/ACTFL and PSYC 260) must be met by March 1 of the preceding semester.

For placements in the spring semester, these criteria must be met by October 1 of the preceding semester.

For placements in the summer session, these criteria must be met by February 1 of the preceding semester.

Failure to meet criteria on time may result in a delay of the professional semester.

Licenses to Teach
Criteria for Recommendation for Licensure:
1. Completion of a baccalaureate degree.
2. Completion of an approved teacher education major and passing score on the edTPA.
3. A 2.75 or higher GPA in the major and minor (where certifiable) and in the combination of all course work in the major, minor (where certifiable), and professional education courses exclusive of student teaching. All college-level courses attempted by the student except student teaching are included when major, minor, and professional education GPAs are determined for recommendation for licensure.
4. Completion of student teaching courses with a mark of S, or grade of B- or above in departments where a letter grade is assigned.
5. Content area proficiency through one of the following:

Students will earn a minimum 3.0/4.0 GPA in content courses OR through obtaining a passing score on the appropriate Praxis II/ACTFL exam.

For students who neither meet the minimum GPA requirement nor pass the appropriate Praxis II/ACTFL exam after at least two attempts, a content portfolio can be submitted which parallels the content evaluated on the Praxis II/ACTFL exam. The portfolio may only be submitted once. Foreign language majors and minors must earn passing scores on the ACTFL. The standardized examination and passing score shall be determined by the State Superintendent. All MCEA, Special Education majors and minors, and Early Childhood majors must earn a passing score on the FORT. In addition, a completed edTPA must be submitted for national scoring. Passing scores on this performance assessment are required for licensure in Wisconsin.

Wisconsin Application
College of Education graduates who desire to teach in Wisconsin, will apply for licensure using the WI Department of Public Instruction’s (DPI), ELO (Electronic Licensing Online) by following all steps listed on the site including fingerprinting if applicable.

Upon completion of all program requirements and University and WI Department of Public Instruction teaching requirements, information will be forwarded to WI DPI verifying this completion (including the completion of all required tests), a degree and any add-on certifications that have been awarded, and certifications the teaching candidates are eligible for with licensure. Candidates will then apply for their Initial License.

Out-of-state Applications
It is recommended that graduates seeking licensure to teach in states other than Wisconsin request application forms and instructions from the Department of Education of the state in which licensure is desired. Certification requirements vary by state. Inquiry early in the period of professional preparation is advisable. In most cases, an official transcript of credits must accompany the completed application form; additional tests or coursework may be required. Therefore, it is imperative to check requirements of other states. Wisconsin and most other states require institutional endorsement. In general, candidates will be able to obtain licenses in other states; however, these licenses may be issued with stipulations. It is the student’s responsibility to understand the licensing requirements of other states. UW-Eau Claire programs are designed to meet the requirements in Wisconsin only.

Major Requirements
Teaching (Code 180-207)
Thirty-six semester credits, including:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 114</td>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 215</td>
<td>Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>MATH 216</td>
<td>Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>MATH 324</td>
<td>Linear Algebra</td>
<td>4</td>
</tr>
<tr>
<td>MATH 330</td>
<td>Modern Geometry</td>
<td>4</td>
</tr>
<tr>
<td>MATH 345</td>
<td>Introduction to Probability and Mathematical Statistics</td>
<td>4</td>
</tr>
<tr>
<td>MATH 425</td>
<td>Abstract Algebra I</td>
<td>3</td>
</tr>
</tbody>
</table>

Additional credits to be chosen from mathematics courses numbered above 305

Technology requirement for licensure:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 451</td>
<td>Teaching Mathematics with Technology</td>
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<td>OR</td>
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<tr>
<td>CS 170</td>
<td>Computing for the Sciences and Mathematics</td>
<td>2</td>
</tr>
</tbody>
</table>

This major is restricted to students in the College of Education and Human Sciences: Education Studies: Option B and leads to licensure to teach Mathematics in Early Adolescence through Adolescence classrooms.

1 MATH 347 may be substituted for MATH 345.
2 CS 170 does not count toward the 36 credits required for the mathematics major.