BS in Civil Engineering

Graduates in Civil Engineering are likely to pursue career paths as: construction managers, engineering consultants (structural, environmental, transportation and others) or government policy developers.

 Marketable Skills
1. Critical thinking: Analyze and evaluate issues in order to solve problems and develop informed opinions
2. Entrepreneurship: Develop, organize, and manage ideas and opportunities turning them into new products, services, firms, or industries
3. Leadership: Step up, think, and act critically and creatively to bring others together to accomplish a common task
4. Problem-solving: Find solutions to difficult or complex issues
5. Social responsibility: Act ethically and responsibly for the benefit of society and the public good
6. Teamwork: Participate as an effective, efficient member of a group in order to meet a common goal

The Civil Engineering program at the undergraduate level is broadly based and provides courses in the major divisions of Civil Engineering.

 Educational Objectives
- Will be successful contributors and leaders in their profession and communities.
- Will be effective at communicating as professionals to a diverse technical and non-technical population.
- Will have the ability to use their education to be lifelong learners and adapt to changes in technology and society.
- Will be able to solve engineering problems in the context of society’s dynamic environmental, social, political, and economic realities.

 Fast Track
The Fast-Track Program (http://catalog.utep.edu/admissions/undergraduate/fast-track/#text) enables outstanding undergraduate UTEP students to receive both undergraduate and graduate credit for up to 15 hours of UTEP course work as determined by participating Master’s and Doctoral programs. Not all undergraduate programs have elected to participate in the Fast Track option, so students should see their departmental graduate advisor for information about requirements and guidelines. A list of courses that have been approved for possible use at the graduate level is found here (http://catalog.utep.edu/admissions/undergraduate/fast-track/#fasttrackcoursestext).

 Degree Plan

Required Credits: 128

Students are expected to satisfy all prerequisites and co-requisites for all required and elective courses at the time of registration.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>University Core Curriculum (All courses require a grade of C or better.)</strong></td>
<td>Complete the University Core Curriculum requirements. (p. 2)</td>
<td>42</td>
</tr>
<tr>
<td><strong>Civil Engineering Designated Core (All courses require a grade of C or better.)</strong></td>
<td>Required courses:</td>
<td></td>
</tr>
<tr>
<td>CE 2326</td>
<td>Econ for Engrs &amp; Scientists</td>
<td></td>
</tr>
<tr>
<td>CHEM 1105</td>
<td>Laboratory for CHEM 1305</td>
<td></td>
</tr>
<tr>
<td>CHEM 1305</td>
<td>General Chemistry</td>
<td></td>
</tr>
<tr>
<td>CS 1320</td>
<td>Computer Programming Sci/Engr</td>
<td></td>
</tr>
<tr>
<td>MATH 1508</td>
<td>Precalculus ((Listed if completed, but not required))</td>
<td></td>
</tr>
<tr>
<td>or MATH 1310</td>
<td>Trigonometry and Conics</td>
<td></td>
</tr>
<tr>
<td>or MATH 1411</td>
<td>Calculus I</td>
<td></td>
</tr>
<tr>
<td>PHYS 2320</td>
<td>Introductory Mechanics</td>
<td></td>
</tr>
<tr>
<td>PHYS 2120</td>
<td>Laboratory for PHYS 2320</td>
<td></td>
</tr>
<tr>
<td><strong>Civil Engineering Core (All courses require a grade of C or better.)</strong></td>
<td>Required Courses:</td>
<td></td>
</tr>
<tr>
<td>CE 1301</td>
<td>Civil Engineering Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>CE 1313</td>
<td>Engineering Measurements</td>
<td>3</td>
</tr>
<tr>
<td>CE 2315</td>
<td>Statics</td>
<td>3</td>
</tr>
<tr>
<td>CE 2334</td>
<td>Mechanics of Materials</td>
<td>3</td>
</tr>
<tr>
<td>CE 2335</td>
<td>Geological Engineering</td>
<td>3</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Hours</td>
</tr>
<tr>
<td>-------------</td>
<td>--------------------------------------</td>
<td>-------</td>
</tr>
<tr>
<td>CE 2338</td>
<td>Mechanics II (Dynamics)</td>
<td>3</td>
</tr>
<tr>
<td>or MECH 2340</td>
<td>Mechanics II -Dynamics</td>
<td></td>
</tr>
<tr>
<td>or PHYS 3331</td>
<td>Thermal Physics</td>
<td></td>
</tr>
<tr>
<td>CE 2343</td>
<td>Structural Analysis</td>
<td>3</td>
</tr>
<tr>
<td>CE 2373</td>
<td>Engr Probability &amp; Statistics</td>
<td>3</td>
</tr>
<tr>
<td>CE 2375</td>
<td>Intro to Fluid Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>CE 2385</td>
<td>Environmental Engr Fundamental</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1411</td>
<td>Calculus I</td>
<td>4</td>
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<tr>
<td>MATH 1312</td>
<td>Calculus II</td>
<td>3</td>
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<tr>
<td>MATH 2313</td>
<td>Calculus III</td>
<td>3</td>
</tr>
<tr>
<td>MATH 2326</td>
<td>Differential Equations</td>
<td>3</td>
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**Civil Engineering Major**

Required Courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>CE 3334</td>
<td>Construction Management</td>
<td>3</td>
</tr>
<tr>
<td>CE 3336</td>
<td>Civil Engineering Materials</td>
<td>3</td>
</tr>
<tr>
<td>CE 3342</td>
<td>Water &amp; Waste Water Engr</td>
<td>3</td>
</tr>
<tr>
<td>CE 3345</td>
<td>Design of Concrete Structures</td>
<td>3</td>
</tr>
<tr>
<td>CE 3348</td>
<td>Geotechnical Engineering</td>
<td>3</td>
</tr>
<tr>
<td>CE 3361</td>
<td>Design of Steel Structures</td>
<td>3</td>
</tr>
<tr>
<td>CE 3456</td>
<td>Hydrology &amp; Hydraulic Engr</td>
<td>4</td>
</tr>
<tr>
<td>CE 4188</td>
<td>Senior Design I</td>
<td>1</td>
</tr>
<tr>
<td>CE 4195</td>
<td>Jr. Professional Orientation</td>
<td>1</td>
</tr>
<tr>
<td>CE 4288</td>
<td>Senior Design II</td>
<td>2</td>
</tr>
<tr>
<td>CE 4339</td>
<td>Geostructural Design</td>
<td>3</td>
</tr>
<tr>
<td>CE 4340</td>
<td>Transportation Engineering</td>
<td>3</td>
</tr>
<tr>
<td>CE 4375</td>
<td>Adv. Topics in Civil Engr.</td>
<td>3</td>
</tr>
<tr>
<td>CE 4376</td>
<td>Adv Topics in Civ Engr II</td>
<td>3</td>
</tr>
</tbody>
</table>

**Lower Division Technical Elective:**

Select one course from the following (Only 3 hours apply towards the requirement):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 1305</td>
<td>General Biology</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 1306</td>
<td>General Chemistry</td>
<td></td>
</tr>
<tr>
<td>MATH 3323</td>
<td>Matrix Algebra</td>
<td></td>
</tr>
<tr>
<td>PHYS 2321</td>
<td>Introductory Electromagnetism</td>
<td></td>
</tr>
<tr>
<td>&amp; PHYS 2121</td>
<td>Laboratory for PHYS 2321</td>
<td></td>
</tr>
</tbody>
</table>

**Upper Division Technical Elective:**

Select one course from the following or any other upper division course from the College of Engineering (excluding CE) or College of Science (Only 3 hours apply towards the requirement):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 2301</td>
<td>Principles of Accounting I</td>
<td>3</td>
</tr>
<tr>
<td>CE 4377</td>
<td>Adv Topics in Civil Engr III</td>
<td></td>
</tr>
<tr>
<td>CHEM 1306</td>
<td>General Chemistry</td>
<td></td>
</tr>
<tr>
<td>MATH 3323</td>
<td>Matrix Algebra</td>
<td></td>
</tr>
<tr>
<td>POLS 3350</td>
<td>Intro to Public Administration</td>
<td></td>
</tr>
<tr>
<td>POLS 3351</td>
<td>The Public Policy Process</td>
<td></td>
</tr>
<tr>
<td>POLS 4359</td>
<td>Urban Planning</td>
<td></td>
</tr>
<tr>
<td>RWS 3359</td>
<td>Technical Writing</td>
<td></td>
</tr>
</tbody>
</table>

**Total Hours** 129

**University Core Curriculum**

The department may make specific suggestions for courses which are most applicable towards your major.

All courses require a C or better
I. Communication (six hours)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>The objective of the communication component is to enable the student to communicate effectively in clear and correct prose or orally in a style appropriate to the subject, occasion, and audience.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select six hours of the following:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>For students whose secondary education was in English:</td>
<td></td>
</tr>
<tr>
<td>COMM 1611</td>
<td>Written and Oral Communication</td>
<td>6</td>
</tr>
<tr>
<td>ENGL 1313</td>
<td>Writing About Literature</td>
<td></td>
</tr>
<tr>
<td>RWS 1301</td>
<td>Rhetoric &amp; Composition I</td>
<td></td>
</tr>
<tr>
<td>RWS 1302</td>
<td>Rhetoric &amp; Composition 2</td>
<td></td>
</tr>
<tr>
<td>RWS 1601</td>
<td>Rhetoric, Composition &amp; Comm</td>
<td></td>
</tr>
<tr>
<td></td>
<td>For students whose secondary education was not in English:</td>
<td></td>
</tr>
<tr>
<td>ESOL 1311</td>
<td>Expos Engl Compos-Spkr Esl</td>
<td></td>
</tr>
<tr>
<td>ESOL 1312</td>
<td>Res &amp; Crit Writing Spkr Esl</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Total Hours</strong></td>
<td><strong>6</strong></td>
</tr>
</tbody>
</table>

II. American History (six hours)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>The objectives of the history component are to expand students’ knowledge of the origin and history of the U.S., their comprehension of the past and current role of the U.S. in the world, and their ability to critically evaluate and analyze historical evidence. U.S. history courses (three hours must be Texas history) include:</td>
<td></td>
</tr>
<tr>
<td>HIST 1301</td>
<td>History of U.S. to 1865</td>
<td>3</td>
</tr>
<tr>
<td>HIST 1302</td>
<td>History of U.S. Since 1865</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Total Hours</strong></td>
<td><strong>6</strong></td>
</tr>
</tbody>
</table>

III. Language, Philosophy & Culture (three hours)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>The objective of the humanities component is to expand students’ knowledge of the human condition and human cultures, especially in relation to behaviors, ideas, and values expressed in works of human imagination and thought. Through study in disciplines such as literature and philosophy, students engage in critical analysis and develop an appreciation of the humanities as fundamental to the health and survival of any society.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select one of the following:</td>
<td>3</td>
</tr>
<tr>
<td>AFST 2300</td>
<td>Intro-African Amer Studies</td>
<td></td>
</tr>
<tr>
<td>CHIC 2302</td>
<td>Latina/o Presence in the U.S.</td>
<td></td>
</tr>
<tr>
<td>ENGL 2311</td>
<td>English Literature</td>
<td></td>
</tr>
<tr>
<td>ENGL 2312</td>
<td>English Literature</td>
<td></td>
</tr>
<tr>
<td>ENGL 2313</td>
<td>Intro to American Fiction</td>
<td></td>
</tr>
<tr>
<td>ENGL 2314</td>
<td>Intro to American Drama</td>
<td></td>
</tr>
<tr>
<td>ENGL 2318</td>
<td>Intro to American Poetry</td>
<td></td>
</tr>
<tr>
<td>FREN 2322</td>
<td>Making of the “Other” Americas</td>
<td></td>
</tr>
<tr>
<td>HIST 2301</td>
<td>World History to 1500</td>
<td></td>
</tr>
<tr>
<td>HIST 2302</td>
<td>World History Since 1500</td>
<td></td>
</tr>
<tr>
<td>PHIL 1301</td>
<td>Introduction to Philosophy</td>
<td></td>
</tr>
<tr>
<td>PHIL 2306</td>
<td>Ethics</td>
<td></td>
</tr>
<tr>
<td>RS 1301</td>
<td>Introduce to Religious Studies</td>
<td></td>
</tr>
<tr>
<td>SPAN 2340</td>
<td>Seeing &amp; Naming: Conversations</td>
<td></td>
</tr>
<tr>
<td>WS 2300</td>
<td>Introduction to Womens Studies</td>
<td></td>
</tr>
<tr>
<td>WS 2350</td>
<td>Global Feminisms</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Total Hours</strong></td>
<td><strong>3</strong></td>
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</tbody>
</table>
### IV. Mathematics (three hours)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 1309</td>
<td>College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1310</td>
<td>Trigonometry and Conics</td>
<td></td>
</tr>
<tr>
<td>MATH 1319</td>
<td>Math in the Modern World</td>
<td></td>
</tr>
<tr>
<td>MATH 1320</td>
<td>Math for Social Sciences I</td>
<td></td>
</tr>
<tr>
<td>MATH 1411</td>
<td>Calculus I</td>
<td></td>
</tr>
<tr>
<td>MATH 1508</td>
<td>Precalculus</td>
<td>1,2</td>
</tr>
<tr>
<td>MATH 2301</td>
<td>Math for Social Sciences II</td>
<td></td>
</tr>
<tr>
<td>STAT 1380</td>
<td>Statistical Literacy</td>
<td></td>
</tr>
<tr>
<td>STAT 2480</td>
<td>Elementary Statistical Methods</td>
<td></td>
</tr>
</tbody>
</table>

1 A higher-level course in the calculus sequence can be substituted.  
2 TCCN MATH 1314 will also satisfy this requirement.

**Total Hours** 3

### V. Life & Physical Sciences (six hours)

<table>
<thead>
<tr>
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<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASTR 1107</td>
<td>Astronomy Lab I</td>
<td></td>
</tr>
<tr>
<td>ASTR 1307</td>
<td>Elem Astronomy-Solar System</td>
<td></td>
</tr>
<tr>
<td>ASTR 1308</td>
<td>Elem Astr Stars &amp; Galaxies</td>
<td></td>
</tr>
<tr>
<td>BIOL 1103</td>
<td>Introductory Biology Lab</td>
<td></td>
</tr>
<tr>
<td>BIOL 1104</td>
<td>Human Biology Laboratory</td>
<td></td>
</tr>
<tr>
<td>BIOL 1107</td>
<td>Topics in Study of Life I</td>
<td></td>
</tr>
<tr>
<td>BIOL 1108</td>
<td>Organismal Biology Laboratory</td>
<td></td>
</tr>
<tr>
<td>BIOL 1203</td>
<td>Introductory Biology</td>
<td></td>
</tr>
<tr>
<td>BIOL 1304</td>
<td>Human Biology</td>
<td></td>
</tr>
<tr>
<td>BIOL 1305</td>
<td>General Biology</td>
<td></td>
</tr>
<tr>
<td>BIOL 1306</td>
<td>Organismal Biology</td>
<td></td>
</tr>
<tr>
<td>BIOL 2111</td>
<td>Human Anat/Physio Lab I</td>
<td></td>
</tr>
<tr>
<td>BIOL 2113</td>
<td>Human Anat/Physio Lab II</td>
<td></td>
</tr>
<tr>
<td>BIOL 2311</td>
<td>Human Anat/Physiology I</td>
<td></td>
</tr>
<tr>
<td>BIOL 2313</td>
<td>Human Anat/Physiology II</td>
<td></td>
</tr>
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<td>CHEM 1105</td>
<td>Laboratory for CHEM 1305</td>
<td></td>
</tr>
<tr>
<td>CHEM 1106</td>
<td>Laboratory for CHEM 1306</td>
<td></td>
</tr>
<tr>
<td>CHEM 1107</td>
<td>Intro General Chemistry Lab</td>
<td></td>
</tr>
<tr>
<td>CHEM 1108</td>
<td>Intro Organic &amp; Biochem Lab</td>
<td></td>
</tr>
<tr>
<td>CHEM 1305</td>
<td>General Chemistry</td>
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<tr>
<td>CHEM 1306</td>
<td>General Chemistry</td>
<td></td>
</tr>
<tr>
<td>CHEM 1307</td>
<td>Intro to General Chemistry</td>
<td></td>
</tr>
<tr>
<td>CHEM 1308</td>
<td>Intro Organic &amp; Biochemistry</td>
<td></td>
</tr>
<tr>
<td>ESCI 1101</td>
<td>Environmental Sci. Lab</td>
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</tr>
<tr>
<td>ESCI 1102</td>
<td>Non-major Lab for ESCI 1301</td>
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</tr>
<tr>
<td>ESCI 1202</td>
<td>Intro to Environment Science 2</td>
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</tr>
<tr>
<td>ESCI 1301</td>
<td>Intro to Environmental Sci</td>
<td></td>
</tr>
</tbody>
</table>

The objective of the study of the natural sciences is to enable the student to understand, construct, and evaluate relationships in the natural sciences, and to enable the student to understand the bases for building and testing theories. The courses listed are for non-majors; the major courses in the discipline can be substituted for the non-major sequence. A minimum of two semesters of lecture and one semester of laboratory associated with one of the courses, or two semesters of combined (3 credit) lecture-laboratory courses (Only six hours apply toward the required 42.).

Select one of the following: 1-4
<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 1106</td>
<td>Laboratory for GEOG 1306</td>
</tr>
<tr>
<td>GEOG 1306</td>
<td>Physical Geography</td>
</tr>
<tr>
<td>GEOL 1103</td>
<td>Lab for GEOL 1313</td>
</tr>
<tr>
<td>GEOL 1104</td>
<td>Lab for GEOL 1314</td>
</tr>
<tr>
<td>GEOL 1111</td>
<td>Principles of Earth Sci - Lab</td>
</tr>
<tr>
<td>GEOL 1112</td>
<td>Laboratory for Geology 1212</td>
</tr>
<tr>
<td>GEOL 1211</td>
<td>Principles of Earth Sciences</td>
</tr>
<tr>
<td>GEOL 1212</td>
<td>Principles of Earth Science</td>
</tr>
<tr>
<td>GEOL 1230</td>
<td>The Blue Planet</td>
</tr>
<tr>
<td>GEOL 1231</td>
<td>Natural Hazards</td>
</tr>
<tr>
<td>GEOL 1313</td>
<td>Intro to Physical Geology</td>
</tr>
<tr>
<td>GEOL 1314</td>
<td>Intro to Historical Geol</td>
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<tr>
<td>HSCI 2302</td>
<td>Fundamentals of Nutrition</td>
</tr>
<tr>
<td>HSCI 2303</td>
<td>Wellness Dynamics</td>
</tr>
<tr>
<td>MICR 2330</td>
<td>Microorganisms and Disease</td>
</tr>
<tr>
<td>PHYS 1403</td>
<td>General Physics I</td>
</tr>
<tr>
<td>PHYS 1404</td>
<td>General Physics II</td>
</tr>
<tr>
<td>PHYS 2120</td>
<td>Laboratory for PHYS 2320</td>
</tr>
<tr>
<td>PHYS 2121</td>
<td>Laboratory for PHYS 2321</td>
</tr>
<tr>
<td>PHYS 2320</td>
<td>Introductory Mechanics</td>
</tr>
<tr>
<td>PHYS 2321</td>
<td>Introductory Electromagnetism</td>
</tr>
</tbody>
</table>

**Total Hours**: 6

### VI. Political Science (six hours)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLS 2310</td>
<td>Introduction to Politics</td>
<td>3</td>
</tr>
<tr>
<td>POLS 2311</td>
<td>American Gover &amp; Politics</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Hours**: 6

### VII. Social and Behavioral Sciences (three hours)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 1301</td>
<td>Intro-Phys Anth/Archeolog</td>
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The objectives of the political science component are to expand students' knowledge of the origin and evolution of the U.S. and Texas political systems, focusing on the growth of political institutions, and on the constitutions of Texas and the United States; and to enhance their understanding of federalism, states rights, and individual civil liberties, rights, and responsibilities.

**Required Courses:**

POLS 2310 Introduction to Politics
POLS 2311 American Gover & Politics

**Total Hours**: 6

The objective of the social and behavioral science component is to increase students' knowledge of how social and behavioral scientists discover, describe, and explain the behaviors and interactions among individuals, groups, institutions, events, and ideas. Such knowledge will better equip students to understand themselves and the roles they play in addressing the issues facing humanity.

Select one of the following:

ANTH 1301 Intro-Phys Anth/Archeolog
ANTH 1302 Intro-Cultural Anthropology
ANTH 1310 Cultural Geography
ANTH 2320 Intro to Linguistics
CE 2326 Econ for Engrs & Scientists
ASIA 2300 Asian American Studies
COMM 2350 Interpersonal Communication
COMM 2372 Mass Media and Society
ECON 2303 Principles of Macroeconomics
ECON 2304 Principles of Microeconomics
EDPC 1301 Introduction to Ed Psychology
EDU 1342 Action Research in Classrooms
ENGL 2320 Introduction to Linguistics
GEOG 1310 Cultural Geography
LEAD 2300  Community Service
LING 2320  An Intro. to Linguistics
LING 2340  Lang. Inside & Out: Sel Topics
PSYC 1301  Introduction to Psychology
SOCI 1301  Introduction to Sociology
SOCI 1310  Cultural Geography

Total Hours  3

VIII. Creative Arts (three hours)

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Total Hours  3

IX. Component Area Option (six hours)

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Total Hours  6

4-Year Sample Degree Plan

BS Civil Engineering (Starting with Pre-Calculus)

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FRESHMAN

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**Notes:**
- *Prerequisite Course
- *Corequisite if scheduled for the same semester.

1. A grade of "C" or better must be achieved for all Lower-Division courses, including the Arts and Humanities electives, as well as CE 2373 (IE 3373) & CE 2335 (GEOL 3321).
2. MATH 3323, PHYS 2421, CHEM 1306 OR BIOL 1305.
3. CE 2338 or MECH 2340 or PHYS 3331 (PreRequisite for CE 2338 is CE 2315 and MATH 1312).
4. Select an ART course from ART 1300; ARTH 1305, 1306; DANC 1304; MUSL 1324, 1327, 2321; THEA 1313; FILM 1390.
5. CE 4377, POLS 3350, POLS 3351; POL 4359, RWS 3359, ACCT 2301, MATH 3323, CHEM 1306.
6. Select a Lang. Philosophy and Culture course from ENGL 2311, 2312, 2313, 2314, 2318; FREN 2322; HIST 2301, 2302; PHIL 1301, 2306; RS 1301; SPAN 2340; WS 2300, 2350.

Total Hours: 128

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**BS Civil Engineering (Starting with Calculus)**

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**SENIOR**

| Fall     | CE 4188     | Senior Design I                                   | 1     |
|          | CE 4339     | Geostructural Design                              | 3     |
|          | CE 4340     | Transportation Engineering                        | 3     |
|          | CE 4375     | Adv. Topics in Civil Engr.                        | 3     |
|          | POLS 2311   | American Gover & Politics                         | 3     |
|          | Creative Arts Elective *4,1                      | 3     |
| Spring   | CE 4288     | Senior Design II                                  | 1     |
|          | CE 4376     | Adv Topics in Civ Engr II                         | 3     |
|          | General Elective (3 hrs. towards degree) *5       | 3     |
|          | Language Phil. & Cult. Elective *6,1              | 3     |

**Notes:**

*Prerequisite Course
*Corequisite if scheduled for the same semester.

1 A grade of "C" or better must be achieved for all Lower-Division courses, including the Arts and Humanities electives, as well as CE 2373 (IE 3373) & CE 2335 (GEOL 3321)

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7 Not required for Calculus I ready students

**Total Hours** 128