16. Change in Curriculum

Dwight Look College of Engineering
   Department of Civil Engineering
   BS in Civil Engineering - Transportation Engineering Track
CHANGE IN CURRICULA
CHANGE IN CURRICULUM

DWIGHT LOOK COLLEGE OF ENGINEERING
DEPARTMENT OF CIVIL ENGINEERING
BS IN CIVIL ENGINEERING - TRANSPORTATION ENGINEERING TRACK
Texas A&M University
Request for a Change in Curriculum
Undergraduate • Graduate • Professional

1. Program request type: ✓ Undergraduate  □ Graduate  □ First Professional (e.g., DVM, JD, MD, etc.)

2. Request change for: ✓ Degree Program  □ Minor  □ Certificate

3. Request submitted by (Department or Program Name): Zachary Department of Civil Engineering
   Program Designation and Name: B.S. in Civil Engineering - Transportation Engineering

5. Brief description of change:
   Addition of 1 required course: CVEN 399.

6. Rationale for change:
   CVEN 399 is a 0 credit course to implement a high-impact learning practice requirement in the curriculum.

7. a. Proposed curriculum attached. ✓ Yes  □ No
   b. Current catalog curriculum with handwritten edits attached. ✓ Yes  □ No
   c. Current Howdy degree evaluation with handwritten edits attached. ✓ Yes  □ No

   Please make sure the attached proposed curriculum, catalog and Howdy degree evaluation match.

8. a. Will degree program hours change (increase/decrease) due to the proposed curriculum changes? □ Yes  ✓ No
   b. If yes, degree program hours will change from: _________ to: _________
   c. If yes, is the Texas Higher Education Coordinating Board form attached? http://www.thecb.state.tx.us/index.cfm/objdocid-A0F9F7FA-9A92-4F11-2756AD3BBFF01D60  □ Yes  □ No

9. If proposed changes affect other unit(s), are letters of support attached? □ Yes  □ No

IMPORTANT NOTE: Curriculum changes submitted through the approval process and fully approved by February (December-UCC/GC, January-Faculty Senate, February-President) will be effective in the next academic year. Changes requiring approval beyond the University should complete the internal approval process early in the fall semester whenever possible in order to ensure timely implementation.

Approval recommended by:

Robin Autenrieth
Department Head or Program Chair (Type Name & Sign) Date

Dean of College Date

Chair, College Review Committee Date

Chair, GC or UCC Date

Questions regarding this form should be directed to Curricular Services at 845-8201 or sandra-williams@tamu.edu.
Curricular Services – 04/14
# CATALOG 139 CURRICULUM FOR BS, CIVIL ENGINEERING

## FRESHMAN YEAR

<table>
<thead>
<tr>
<th>First Semester</th>
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<th>(Cr)</th>
<th>Second Semester</th>
<th>(Th-Pr)</th>
<th>(Cr)</th>
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<tr>
<td>ENGL 104 Composition &amp; Rhetoric</td>
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<td>CHEM 107 Gen. Chem. for Engineers</td>
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<td>CHEM 117 Gen. Chem. for Engineers Lab</td>
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<td>MATH 152 Engineering Mathematics II</td>
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## SOPHOMORE YEAR

| CVEN 207 Intro to the Civil Engr Prof.                  | (1-0)   | 1    | CVEN 250 Graphics & Visualization in Civil Eng.     | (1-3)   | 2    |
| CVEN 221 Engr. Mech.: Statics                          | (2-2)   | 3    | CVEN 302 Computer Applications                       | (3-0)   | 3    |
| MATH 251 Engineering Mathematics III                    | (3-0)   | 3    | CVEN 303 Civil Engr. Measurement                     | (2-3)   | 3    |
| STAT 211 Principles of Statistics I                     | (3-0)   | 3    | CVEN 305 Engr Mech. of Materials                     | (3-0)   | 3    |
| University Core Curriculum Elective                     |         | 3    | CVEN 306 Materials for Civil Engineers               | (2-2)   | 3    |
| ENGL 210 or COMM 205                                    |         | 3    | MATH 308 Differential Equations                      | (3-0)   | 3    |
|                                                          |         |      |                                                       | 16      | 17   |

## JUNIOR YEAR

| CVEN 311 Fluid Dynamics                                 | (3-0)   | 3    | CVEN 399 Mid-Curriculum Prof. Development            | (0-0)   | 0    |
| CVEN 322 Civil Engineering Systems II                  | (3-0)   | 3    | MEEN 315, ELEN 215, or BAEN 320                      | (2-2)   | 3    |
| CVEN 345 Theory of Structures                          | (3-0)   | 3    | Technical Electives                                 |         | 9    |
| CVEN 363 Engr Mech: Dynamics                           | (2-2)   | 3    | University Core Curriculum Elective                  |         | 3    |
| Technical Elective                                      |         |      |                                                       | 15      | 15   |

## SENIOR YEAR

| CVEN 424 Civil Engineering Prof. Practice              | (1-2)   | 2    | ENGR/PHIL 482 Ethics and Engineering                 | (2-2)   | 3    |
| Technical Electives                                    |         | 12   | Technical Electives                                  |         | 12   |
| University Core Curriculum Elective                    |         | 3    |                                                       | 17      | 15   |

## NOTES:

1. To be selected from the University Core Curriculum. Of the 18 hours shown as University Core Curriculum electives, 3 must be from creative arts, 3 from social and behavioral sciences, 6 from American history, and 6 from government and political science. The required 6 hours from international and cultural diversity may be met by courses satisfying the creative arts, social and behavioral sciences, American history, and government and political science requirements if they are also on the approved list of international and cultural diversity courses.

2. Civil engineering students are required to earn a grade of C or better in all basic science, mathematics and engineering courses taken to satisfy degree requirements.

3. A total of 33 hours of technical electives is required. Technical electives are divided into four categories: science courses, breadth courses, focus courses, and capstone design courses. The choice of courses to be taken in each of the four categories depends on the specialty area chosen and must be made in consultation with the student's advisor and/or the Civil Engineering Student Services Office. Capstone design courses must include more than one civil engineering context.

4. All students must take at least two courses in their major that are designated as writing intensive (W). ENGR/PHIL 482 and CVEN 424 taken at A&M satisfy this requirement. Other CVEN courses may be approved as W-courses at a later date. A grade of C or better is required in these courses.
Civil Engineering - BS, Transportation Engineering Track

The Transportation Engineering Track is designed to fulfill the BS in Civil Engineering degree requirements. It emphasizes specialized coursework in transportation engineering areas of planning, design, and operations, as well as civil engineering sub-disciplines with strong transportation connections such as water resources, construction, and geotechnical. The track is appropriate for those wishing to pursue careers in engineering related to the planning, design, construction, operation, and maintenance of various elements of the transportation system, including roads, rail, transit, and aviation.

Program Requirements

The freshman year is identical for degrees in aerospace engineering, biomedical engineering, civil engineering, computer engineering, electrical engineering, industrial engineering, mechanical engineering, nuclear engineering, ocean engineering, and petroleum engineering thus allowing a student with adequate grades to change majors within the Dwight Look College of Engineering. The freshman year is slightly different for chemical engineering and radiological health engineering in that students take CHEM 101/111 and CHEM 102/112 instead of CHEM 107/117. Students pursuing degrees in biological and agricultural engineering, computer science, engineering technology, or industrial distribution should refer to the specific curriculum for those majors. It is recognized that many students will change the sequence and number of courses taken in any semester. Deviations from the prescribed course sequence, however, should be made with care to ensure that prerequisites for all courses are met. In addition to the freshman year curriculum listed below, students should refer to the specific curriculum for each major for other requirements. Before commencing course work in the major, students must be admitted to the major or have the approval of the department.

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<td>ENGL 104</td>
<td>Composition and Rhetoric ¹</td>
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<td>Foundations of Engineering I ¹</td>
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<td>Engineering Mathematics I ¹, ²</td>
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<td>PHYS 218</td>
<td>Mechanics ¹</td>
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<tbody>
<tr>
<td>CHEM 107</td>
<td>General Chemistry for Engineering Students ¹, ⁴</td>
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<tr>
<td>CHEM 117</td>
<td>General Chemistry for Engineering Students Laboratory ¹</td>
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<tr>
<td>ENGR 112</td>
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<tr>
<td>CVEN 207</td>
<td>Introduction to the Civil Engineering Profession</td>
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<td>CVEN 221</td>
<td>Engineering Mechanics: Statics</td>
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<td>MATH 251</td>
<td>Engineering Mathematics III</td>
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<td>Principles of Statistics I</td>
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<td>COMM 205 or</td>
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<tr>
<td>CVEN 250</td>
<td>Introduction to Graphics and Visualization Applications in Civil Engineering Design</td>
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<tr>
<td>CVEN 302</td>
<td>Computer Applications in Engineering and Construction</td>
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<td>CVEN 303</td>
<td>Civil Engineering Measurement</td>
<td>3</td>
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<tr>
<td>CVEN 305</td>
<td>Mechanics of Materials</td>
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<td>CVEN 306</td>
<td>Materials Engineering for Civil Engineers</td>
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<td>MATH 308</td>
<td>Differential Equations</td>
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<td><strong>Term Semester Credit Hours</strong></td>
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<th>Third Year</th>
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<tbody>
<tr>
<td>CVEN 311</td>
<td>Fluid Dynamics</td>
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<tr>
<td>CVEN 322</td>
<td>Civil Engineering Systems</td>
<td>3</td>
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<tr>
<td>CVEN 345</td>
<td>Theory of Structures</td>
<td>3</td>
</tr>
<tr>
<td>CVEN 363</td>
<td>Engineering Mechanics: Dynamics</td>
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</table>

### Notes

1. A grade of C or better is required.
2. Entering students will be given a math placement exam. Test results will be used in selecting the appropriate starting course which may be at a higher or lower level.
3. Of the 18 hours shown as University Core Curriculum electives, 3 must be from creative arts, 3 from social and behavioral sciences, 6 from American history, and 6 from government/political science. The remaining 6 hours from international and cultural diversity may be met by courses satisfying the creative arts, social and behavioral sciences, and American history requirements if they are also on the approved list of international and cultural diversity courses.
4. BMEN, CHEN, and PHEN require 8 hours of freshman chemistry, which may be satisfied by CHEM 101/CHEN 111 or CHEM 107/CHEN 117 and CHEM 102/CHEN 112; Credit by Examination (CBE) for CHEM 101/CHEN 111 or CHEM 107/CHEN 117 plus CHEM 102/CHEN 112; or 8 hours of CBE for CHEM 101/CHEN 111 or CHEM 107/CHEN 117 and CHEM 102/CHEN 112.
Technical elective $^5$  5

Term Semester Credit Hours  15

Spring
Select one of the following:
BAEN 320  Engineering Thermodynamics  3
ECEN 215  Principles of Electrical Engineering  3
MEEN 315  Principles of Thermodynamics  3
Technical elective $^5$  9
University Core Curriculum  3

Term Semester Credit Hours  17

Fourth Year
Fall
CVEN 424  Civil Engineering Professional Practice $^6$  2
Technical elective $^5$  12
University Core Curriculum  3

Term Semester Credit Hours  17

Spring
ENGR 482/PHIL 482  Ethics and Engineering $^6$  3
Technical elective $^5$  9
University Core Curriculum  3

Term Semester Credit Hours  17

Total Semester Credit Hours:  95

$^5$ A total of 33 hours of technical electives is required. Technical electives are divided into four categories: science courses, breadth courses, focus courses, and capstone design courses. The choice of courses to be taken in each of the four categories depends on the track chosen and must be made in consultation with the student’s advisor and/or the Civil Engineering Undergraduate Student Services Office. Capstone design courses must include more than one civil engineering context.

$^6$ All students must take at least two courses in their major that are designated as writing intensive (W), ENGR 482/PHIL 482 and CVEN 424 taken at Texas A&M satisfy this requirement. Other CVEN courses may be approved as W courses at a later date. A grade of C or better is required in these courses.

A grade of C or better is required in all science, mathematics and engineering courses taken to satisfy degree requirements.

Total Program Hours 128

Transportation Engineering Track - Technical Electives

Technical electives for the BS in Civil Engineering, Transportation Engineering Track are composed of a SCIENCE course (3 semester credit hours), BREADTH courses (12-18 semester credit hours), FOCUS courses (9-15 semester credit hours), and a CAPSTONE DESIGN course (3 semester credit hours), as delineated below, for a total of 33 semester credit hours. A substitution for any course in the track must be approved in writing by the Civil Engineering Undergraduate Student Services Office, CE Building, Room 140.

SCIENCE Course (3 Semester Credit Hours Required)
Choose 3 Semester Credit Hours From:
ATMO 201 Weather and Climate  3
BESC 201 Introduction to Bioenvironmental Sciences  3
GEOG 203 Planet Earth  3
GEOL 320 Geology for Civil Engineers  3
GEOS 105 Introduction to Environmental Geoscience  3

BREADTH Courses (12-18 Semester Credit Hours Required) $^1$
CVEN 307  Transportation Engineering  3
CVEN 342  Materials of Construction  3
or CVEN 343  or Portland Cement Concrete Materials for Civil Engineers  3
CVEN 444  Structural Concrete Design  3
Choose 3-9 Semester Credit Hours From:
CVEN 301  Environmental Engineering  3
CVEN 339  Water Resources Engineering  3
CVEN 349  Civil Engineering Project Management  3
CVEN 385  Introduction to Geotechnical Engineering  3
CVEN 446  Structural Steel Design  3

FOCUS Courses (9-15 Semester Credit Hours Required) $^1$
CVEN 454  Urban Planning for Engineers  3
CVEN 457  Urban Traffic Facilities  3
Choose 3-9 Semester Credit Hours From:
CVEN 403  Applied Civil Engineering Surveying $^2$  3
CVEN 417  Bituminous Materials  3
CVEN 418  Highway Materials and Pavement Design  3
CVEN 423  Geomatics for Civil Engineering  3
CVEN 451  Public Works Engineering  3
CVEN 455  Urban Stormwater Management  3
ISEN 430  Human Factors and Ergonomics  3

CAPSTONE DESIGN Course (3 Semester Credit Hours Required)
CVEN 456  Highway Design  3

$^1$ The sum of semester credit hours of Breadth and Focus courses must be at least 27.

$^2$ CVEN 403 is a 2 semester credit hour course. Students must typically earn an additional 1 semester credit hour of Focus course credit and should consult with their advisors for guidance on appropriate courses with which to earn this credit.
Detail Requirements

Information for Degree Evaluation
This is NOT an official evaluation.

Program Evaluation

**Limitation** Correspondence: No more than 12 hours of correspondence earned through an accredited institution may be used for an undergraduate degree.
**Limitation** Combination: Maximum combination of 18 hours of 481, 482, 485 and/or 491 courses may be used for an undergraduate degree.

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<tr>
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<td>College Station</td>
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<tr>
<td>College</td>
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<td>Degree</td>
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This is NOT an official evaluation.

**Area:** Major Coursework (39.000 credits) - Not Met
**Description:** Must have a grade of 'C' or better in all area coursework.

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Select from BAEN 320; ECEN 215; MEEN 315.

**Add:** Rule P. CVEN 399 0hrs

Total Credits and GPA

https://compass-ssb.tamu.edu/pls/PROD/bwckcapp.P_VerifyDispEvalViewOption

9/30/2015
unofficial evaluation

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<td>Condition Rule Subject Attribute Low High Required Term Subject Course Title Attribute Credits Courses</td>
</tr>
<tr>
<td>No</td>
<td>A. MATH 308 3hrs</td>
</tr>
<tr>
<td>No</td>
<td>AND B. MATH 251 3hrs</td>
</tr>
<tr>
<td>No</td>
<td>AND C. STAT 211 3hrs</td>
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Total Credits and GPA

unofficial evaluation

<table>
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<tr>
<th>Area :</th>
<th>Additional Coursework ( 33,000 credits ) - Not Met</th>
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<td>Description</td>
<td>Must have a grade of 'C' or better in all area coursework.</td>
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<td>Condition Rule Subject Attribute Low High Required Term Subject Course Title Attribute Credits Courses</td>
</tr>
<tr>
<td>No</td>
<td>A. CVEN 307 3hrs</td>
</tr>
<tr>
<td>No</td>
<td>AND B. CVEN 444 3hrs</td>
</tr>
<tr>
<td>No</td>
<td>AND C. CVEN 454 3hrs</td>
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<tr>
<td>No</td>
<td>AND D. CVEN 456 3hrs</td>
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<tr>
<td>No</td>
<td>AND E. CVEN 457 3hrs</td>
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<tr>
<td>No</td>
<td>AND F. Breadth Elect. 1 - 3hrs&lt;br&gt; Select from CVEN 342-343.</td>
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<tr>
<td>No</td>
<td>AND G. Breadth Elect. II - 3hrs&lt;br&gt; Select from CVEN 301, 339, 349, 365, 421, 446.</td>
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<tr>
<td>No</td>
<td>AND H. Focus Elect. - 3hrs&lt;br&gt; Select from CVEN 403, 417-418, 423, 451, 455; ISEN 430.</td>
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<tr>
<td>No</td>
<td>AND I. Breadth/Focus Elect. - 6hrs&lt;br&gt; Select from CVEN 301, 339, 349, 365, 403, 417-418, 421, 423, 446, 451, 455; ISEN 430.</td>
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<tr>
<td>No</td>
<td>AND J. Science Elect. - 3hrs&lt;br&gt; Select from ATM 201; BESC 201; GEOG 203; GEOG 320; GEOG 105.</td>
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Total Credits and GPA

unofficial evaluation

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<tr>
<th>Area :</th>
<th>Communication ( 6,000 credits ) - Not Met</th>
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<td>No</td>
<td>A. ENGL 104&lt;br&gt; Must have a grade of 'C' or better.</td>
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<td>No</td>
<td>AND B. Communication Reqmt 3hrs&lt;br&gt; Select from ENGL 210; COMM 205.</td>
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Total Credits and GPA 0.000

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9/30/2015
### Mathematics (8.000 credits) - Not Met

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<td>MATH 151</td>
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<td>MATH 152</td>
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unofficial evaluation

### Life and Physical Sciences (12.000 credits) - Not Met

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<th>Attribute</th>
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<th>Required</th>
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<th>Credits</th>
<th>Courses</th>
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<tr>
<td>No</td>
<td></td>
<td>A.</td>
<td>CHEM 107 and 117</td>
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<td>No</td>
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<td>B.</td>
<td>PHYS 218</td>
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<td>C.</td>
<td>PHYS 208</td>
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unofficial evaluation

### Language, Philosophy & Culture (3.000 credits) - Not Met

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<th>Attribute</th>
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<td>ENGR 402</td>
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unofficial evaluation

### Creative Arts (3.000 credits) - Not Met

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<th>Attribute</th>
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<th>Credits</th>
<th>Courses</th>
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<tr>
<td>No</td>
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<td>A.</td>
<td>Creative Arts Requirement</td>
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Select three hours from any course with the Creative Arts attribute [KCRA].

Total Credits and GPA 0.000

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### Social and Behavioral Sciences (3.000 credits) - Not Met

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<th>Attribute</th>
<th>Low High</th>
<th>Required</th>
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<th>Course Title</th>
<th>Attribute C</th>
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<th>Courses</th>
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<tr>
<td>No</td>
<td></td>
<td>A.</td>
<td>Social Science Rqmt 3hrs</td>
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</table>

Select from courses with the Social and Behavioral Science attribute [KSOC].

Total Credits and GPA 0.000

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Area: Citizenship (12,000 credits) - Not Met
Description: Completion of 4 semesters of Upper-Level ROTC may be substituted for 3 hours of American History and 3 hours of Political Science.

Met

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<thead>
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<th>Subject</th>
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<th>Low</th>
<th>High</th>
<th>Required</th>
<th>Term</th>
<th>Subject</th>
<th>Course</th>
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<th>Courses</th>
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<td></td>
<td>American History Rqmt 6hrs</td>
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<td>Select from any course with the [KHS] attribute.</td>
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<td>No</td>
<td>AND</td>
<td>B.</td>
<td></td>
<td></td>
<td>Political Science Rqmt 6hrs</td>
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<td></td>
<td>Take POLS 206 and POLS 207.</td>
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</table>

Total Credits and GPA

unofficial evaluation

Area: Work Not Applied - Not Met
Description: See advisor for acceptable substitutions.

Met

<table>
<thead>
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<th>Attribute</th>
<th>Low</th>
<th>High</th>
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<th>Term</th>
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<th>Courses</th>
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<td>Courses not applied</td>
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Total Credits and GPA

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Area: University Writing Requirement - Not Met

Met

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<th>High</th>
<th>Required</th>
<th>Term</th>
<th>Subject</th>
<th>Course</th>
<th>Title</th>
<th>Attribute</th>
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<th>Courses</th>
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<tr>
<td>No</td>
<td>A.</td>
<td>Writing Requirement</td>
<td>Two courses required, Must make grade of 'C' or better, Only sections of CVEN 424; ENGR 482; PHIL 482 with the Writing attribute [UWRT] may be used to satisfy this requirement.</td>
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Total Credits and GPA 0.000

unofficial evaluation

Area: Int'l & Cult Diversity - Not Met

Met

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<th>Condition</th>
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<th>High</th>
<th>Required</th>
<th>Term</th>
<th>Subject</th>
<th>Course</th>
<th>Title</th>
<th>Attribute</th>
<th>Credits</th>
<th>Courses</th>
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</thead>
<tbody>
<tr>
<td>No</td>
<td>A.</td>
<td>Int'l &amp; Cultural Diversity 6hr</td>
<td>Select from courses with the International and Cultural Diversity attribute [UICD] (except sections of BUSN 289 with the UWRT attribute).</td>
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Total Credits and GPA 0.000

unofficial evaluation

Area: Foreign Language - Not Met

Met

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<th>Condition</th>
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<th>High</th>
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Term Subject Course Title Attribute Credits

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<th>No</th>
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<th>Foreign Language Rqmt</th>
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<td></td>
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<td>Complete one of the following:</td>
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<tr>
<td></td>
<td></td>
<td>1. Two years of the same foreign language in High School.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2. A two semester sequence of the same foreign language for University credit.</td>
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unofficial evaluation

<table>
<thead>
<tr>
<th>Area:</th>
<th>Residence Requirement - Not Met</th>
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<tbody>
<tr>
<td>Description:</td>
<td>A minimum of 36 hours of 300-400 level coursework must be completed at Texas A&amp;M University. 12 hours must be in the major field.</td>
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<td>Condition</td>
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<td>A.</td>
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<tr>
<td></td>
<td></td>
</tr>
<tr>
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unofficial evaluation

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<tr>
<th>Area:</th>
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<td>No</td>
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