11. Change in Curriculum

Dwight Look College of Engineering
Department of Industrial and Systems Engineering
BS in Industrial Engineering
CHANGE IN CURRICULA
CHANGE IN CURRICULUM

DWIGHT LOOK COLLEGE OF ENGINEERING
DEPARTMENT OF INDUSTRIAL AND SYSTEMS ENGINEERING
BS IN INDUSTRIAL ENGINEERING
Texas A&M University
Request for a Change in Curriculum

1. Request change for: ☐ Degree Program ☐ Minor ☐ Certificate

2. Request submitted by (Department or Program Name):
   Industrial and Systems Engineering

3. Program Designation and Name
   (e.g., B.A. in History, Minor in History, Certificate in European Union):
   B.S. - Industrial Engineering

4. Brief description of change: Removing KINE 198 & KINE 199 from the curriculum. Core curriculum component name areas are being changed to match the new Core Curriculum.

5. Rationale for change: The curriculum is being changed to update language in catalog and the evaluation to reflect new Core Curriculum language as mandated by the Texas Higher Education Coordinating Board and the Core Curriculum Council of the Faculty Senate.

6. Use the checkboxes below to make sure that all information is included.
   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.

7. 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: 128 to: 125
   c. If yes, is the Texas Higher Education Coordinating Board form attached? ☒ Yes ☐ No
   http://www.thech.state.tx.us/index.cfm?objectid=AO59F7FA-9A92-4F11-2756AD38B3BBF01D60

8. 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:

[Signatures and dates]

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 - 07/12

RECEIVED
DEC 02 2013
CURRICULAR SERVICES
Curricula in Engineering

The freshman year is almost identical for degrees in aerospace engineering, biological and agricultural engineering, biomedical engineering, chemical engineering, civil engineering, computer engineering, electrical engineering, industrial engineering, mechanical engineering, nuclear engineering, ocean engineering, petroleum engineering and radiological health engineering, thus allowing a student with adequate grades to change majors within the Look College of Engineering. Although listed in eight semesters, most students will change the sequence and number of courses taken in any semester. However, deviations from the prescribed course sequence should be made with care to ensure that prerequisites for all courses are met.

In addition to the listed freshman year, please refer to the specific major curriculum for other requirements.

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 104, Comp. and Rhetoric</td>
<td>CHEM 101, Gen. Chem. for Eng. Students</td>
</tr>
<tr>
<td>MATH 151, Engineering Mathematics</td>
<td>ENGR 112, Foundations in Engineering II</td>
</tr>
<tr>
<td>PHYS 218, Mechanics</td>
<td>MATH 152, Engineering Mathematics II</td>
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<tr>
<td>University Core Curriculum elective</td>
<td>PHYS 208, Electricity and Optics</td>
</tr>
<tr>
<td>WISE 100, Health and Fitness Activity</td>
<td>University Core Curriculum elective</td>
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</table>

**NOTES:**
- Entering students will be given a placement test in mathematics. Test results will be used in selecting the appropriate starting course which may be at a higher or lower level.
- To be selected from the University Core Curriculum electives. 3 must be from areas in social and behavioral sciences, 3 from physical sciences, and 2 from history and fine arts electives. The remaining 6 hours must be from areas in international and cultural diversity.
- ENGR 111, CHEM 111, PHYS 218, MATH 152, or other courses may be substituted for CHEM 101, CHEM 111, PHYS 208, MATH 152, or other courses.
- American history and government/political science requirements are also on the approved list of international and cultural diversity electives.

**The following majors have different freshman year requirements:** CHEN, CPSL, ESET, MMET, IDIS, RHEN

**FRESHMAN YEAR**

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<thead>
<tr>
<th>(Th-Pt) Cr</th>
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<tr>
<td>ENGL 104, Comp. and Rhetoric</td>
<td>CHEM 101, Gen. Chem. for Eng. Students</td>
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<td>MATH 151, Engineering Mathematics</td>
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**American History and Government/Political Science Requirements**

**Creative Arts**
SOPHOMORE YEAR

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<tr>
<td>ENGL 210 Science and Technical Writing</td>
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<tr>
<td>ENGL 304 Technical Writing</td>
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<tr>
<td>ISEN 303 Engr. Economic Analysis</td>
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<td>MATH 304 Linear Algebra</td>
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<td>POLS 207 State and Local government</td>
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JUNIOR YEAR

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<td>ISEN 416 Facilities Location, Layout and Matl. Handling</td>
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<td>ENGR 482 Ethics and Engineering</td>
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<tr>
<td>ISEN 315 Prod. Systems Planning</td>
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<tr>
<td>ISEN 420 Operations Research I</td>
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<td>ISEN 424 Systems Simulation</td>
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<tr>
<td>Technical electives</td>
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<tr>
<td>Notes: 1.† ISEN 101 is required during the first semester of the freshman year. 2. To be selected from the University Core Curriculum. Of the 18 hours shown as University Core Curriculum electives, 3 must be from visual and performing arts, 3 from social and behavioral sciences, 6 from U.S. history, and 6 from POLS 206 and POLS 207. The required 6 hours from international and cultural diversity may be met by courses satisfying the visual and performing arts, social and behavioral sciences, and the political science and history requirements if they are also on the approved list of international and cultural diversity courses. 3. A total of 12 hours of technical electives is required, of which 9 hours must be industrial engineering courses. The choice of courses to be taken must be made in consultation with the student's advisor and the Industrial Engineering Advising Office. 4. The following certificates from the Dwight L. Drexel College of Engineering are available for students pursuing this degree: Business Management, Energy Engineering, Engineering Project Management, Engineering Hospitality, International Engineering, Polymer Specialty and Safety Engineering (see descriptions beginning on page 123).</td>
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Curriculum in Mechanical Engineering

Mechanical engineering is a highly diversified profession. The mechanical engineer designs machines, devices, various products and control systems, and works with the generation, conversion, transmission, and utilization of mechanical and thermal power. Assignments often include analysis and synthesis of mechanical, thermal, and fluid systems. Mechanical engineers are also responsible for characterization, specification, and analysis of materials used in design and manufacturing. Manufacturing systems, robotics, electromechanical devices, and control systems are also the purview of the mechanical engineer. Graduates in mechanical engineering are among the most versatile engineers and enjoy professional employment in industry, government, consulting, and research organizations.
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 481 courses may be used for an undergraduate degree.

Program:
- Campus: BS INTH
- College: Dwight Look College of Engg
- Degree: Bachelor of Science
- Level: Undergraduate
- Majors: Industrial Engineering
- Departments: Industrial & Systems Eng

Catalog Term:
- Evaluation Term: Fall 2013 - College Station
- Expected Graduation Date: Fall 2013 - College Station
- Request Number: 3
- Results as of: Oct 25, 2013
- Concentrations:

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This is NOT an official evaluation.

Area: Major coursework (39.000 credits) - Not Met

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Total Credits and GPA: 39.000

Area: Supporting coursework (35.400 credits) - Not Met

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Select ISEN 333, 411, 414, 421, 425, 430, 455, 485, 489, CIVEN 333; MEEN 333.

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

10/25/2013
### Detail Requirements

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**Total Credits and GPA** 0.000 .00

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### unofficial evaluation

#### Area 1: Communication (6.000 credits) - Not Met

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**Total Credits and GPA** 0.000 .00

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### unofficial evaluation

#### Mathematics (23.000 credits) - Not Met

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**Total Credits and GPA** 0.000 .00

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### unofficial evaluation

#### Life + Physical Sciences

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**Total Credits and GPA** 0.000 .00

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### unofficial evaluation

#### Language, Philosophy + Culture

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<th>Subject</th>
<th>Low High</th>
<th>Required Credits</th>
<th>Required Courses</th>
<th>Term Subject</th>
<th>Course Title</th>
<th>Attribute Credits</th>
<th>Grade Source</th>
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<td>ENGR 482</td>
<td>OR PHIL 482</td>
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**Total Credits and GPA** 0.000 .00

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### unofficial evaluation

#### Creative Arts

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**Total Credits and GPA** 0.000 .00

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### unofficial evaluation

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

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**Total Credits and GPA** 0.000 .00

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

10/25/2013
unofficial evaluation

American History / Government + Political Science

Area: Citizenship (12.000 credits) - Not Met
Description: Completion of 4 semesters of Upper Level ROTC may be substituted for 3 hours of U.S. History and 3 hours of Political Science.

Met Condition Rule Subject Attribute Low High Required Credits Required Courses Term Subject Course Title Attribute Credits Grade Source
No A. U.S. History Req 8hrs Select from the following:
   1. 6 hours. Take HIS 102, 103.
   2. Up to 6 hours with the U.S. History attribute (HIST).
   3. Up to 3 hours with the Citizenship attribute (CITZ).
No AND B. Political Science Req 6hrs Select from the following:
   1. 6 hours. Take POLS 208, 207.
   2. Up to 3 hours with the Citizenship attribute (CITZ).

Total Credits and GPA 0.000 .00

unofficial evaluation

Area: Kinesiology-Physical Activity (1.000 credits) - Not Met
Description: Transfer students may fulfill the Kinesiology and Health Fitness Requirement by transferring two KINE 199's taken prior to attending Texas A&M.

Met Condition Rule Subject Attribute Low High Required Credits Required Courses Term Subject Course Title Attribute Credits Grade Source
No A. KINE 199
   Must be taken PT

Total Credits and GPA 0.000 .00

unofficial evaluation

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

Met Condition Rule Subject Attribute Low High Required Credits Required Courses Term Subject Course Title Attribute Credits Grade Source
No A. Courses not applied

Total Credits and GPA 0.000 .00

unofficial evaluation

Area: Common Body of Knowledge (CBK) - Not Met
Met Condition Rule Subject Attribute Low High Required Credits Required Courses Term Subject Course Title Attribute Credits Grade Source
No A. MATH 151
   Must have a grade of 'C' or better.
No AND B. MATH 152
   Must have a grade of 'C' or better.
No AND C. PHYS 208 or PHYS 219
   Must have a grade of 'C' or better.
No AND D. PHYS 218
   Must have a grade of 'C' or better.
No AND E. Chemistry 48h
   Must have a grade of 'C' or better.
   Take CHEM 107 and 117.
No AND F. ENGL 104
   Must have a grade of 'C' or better.
No AND G. ENGR 111
   Must have a grade of 'C' or better.

Total Credits and GPA 0.000 .00

Detail Requirements

unofficial evaluation

Area 1: University Writing Requirement - Not Met
Met: Condition Rule Subject Attribute Low High Required Credits Required Courses Term Subject Course Title Attribute Credits Grade Source
No A Writing Requirement
- Two courses required.
- Only sections of ENGR 482, ENGR 416, 424, PHIL 482 with the Writing attribute (УУот) may be used to satisfy this requirement.

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Area 2: Int'l & Cult Diversity - Not Met
Met: Condition Rule Subject Attribute Low High Required Credits Required Courses Term Subject Course Title Attribute Credits Grade Source
No A Int'l & Cultural Diversity thr
- Select two courses with the International and Cultural Diversity attribute (УУот) except sections of BUSN 489 with the УУот attribute.

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Area 3: Foreign Language - Not Met
Met: Condition Rule Subject Attribute Low High Required Credits Required Courses Term Subject Course Title Attribute Credits Grade Source
No A Foreign Language Reqnt
- Complete one of the following:
  1. Two years of the same foreign language in High School.
  2. A two-semester sequence of the same foreign language for University credit.

Area 4: Residence Requirement - Not Met
Description: A minimum of 36 hours of 300-400 level coursework must be completed at Texas A&M University. 12 hours must be in the major field.
Met: Condition Rule Subject Attribute Low High Required Credits Required Courses Term Subject Course Title Attribute Credits Grade Source
No A Residence-Major 12hrs
- Select from ISEN 300-499.
No AND B Residence 300-499 24hrs
- Select any courses level 300-499.

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Area 5: GPA-Major - Not Met
Met: Condition Rule Subject Attribute Low High Required Credits Required Courses Term Subject Course Title Attribute Credits Grade Source
No A Major GPA 3.6 hrs
- Includes ISEN 100-499; CVEN 333; MIEEN 333.

unofficial evaluation

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10/25/2013
Texas Higher Education Coordinating Board
Request to Change Semester Credit Hours

Directions: An institution shall use this form to request a change in the number of semester credit hours (SCH) required for a degree program already on the institution’s program inventory in accordance with Coordinating Board Rules, Chapter 5, Subchapter C, Section 5.55 – Revisions to Approved Programs.

Options:

1) Revisions that reduce the number of SCH require notification of change and affirmation that the reduction does not fall below the minimum requirements of the Southern Association of Colleges and Schools Commission on Colleges, program accreditors, and licensing bodies, if applicable.

2) Revisions that increase the number of SCH require detailed written documentation describing the compelling academic reason for the increase in the number of required hours.

NOTE: No request or notification is needed if revisions to the degree program curriculum do not result in a change in SCH.

Options 1 and 2 require the signature of the Provost or Chief Academic Officer.

Please submit Request to Change Semester Credit Hour via the Online Submission Portal: https://www1.thecb.state.tx.us/apps/proposals/

Information: Contact the Division of Workforce, Academic Affairs and Research at 512/427-6200.

Administrative Information

1. Institution: Texas A&M University

2. Program Name – As it appears on the Coordinating Board’s program inventory (e.g., Bachelor of Business Administration degree with a major in Accounting): Bachelor of Science degree with a major in Industrial Engineering

3. Program CIP Code: 1435010006

4. Contact Person: Provide contact information for the person who can answer specific questions about the program.
   
   Name: Dr. Richard Feldman
   Title: Senior Professor
   E-mail: rchf@tamu.edu
   Phone: 979-845-5585
Form for SCH Changes
Page 2

Notification/Request for Change in Semester Credit Hours (SCH):

Current SCH: ______ 128

Proposed SCH: ______ 126

Implementation Date: 9/01/2014

Complete Option 1 or 2 as appropriate

Option 1: Reduction in Semester Credit Hours

Is the change in the number of SCH compatible with the requirements of accreditation for the program?

a. Southern Association of Colleges and Schools Commission on Colleges
   □ YES □ NO

b. Program Accreditor(s)
   Name of Program Accreditor: __________________________
   □ YES □ NO □ NA

c. Licensing Body(ies)
   Name of Licensing Body(ies): __________________________
   □ YES □ NO □ NA

Option 2: Increase in Semester Credit Hours

Provide detailed documentation, such as changes in accrediting agency or licensing body requirements, workforce needs, or academic professional standards and needs, describing a compelling reason for the change in the number of SCH:

________________________
Signature of Compliance

I hereby certify that all of the above changes have been approved in accordance with the procedures outlined in Coordinating Board Rules, Chapter 5, Subchapter C, Section 5.55.

________________________
Provost/Chief Academic Officer

________________________
Date