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**Bulletin / Banner Change Transmittal Form**

**[X] Undergraduate Curriculum Council**

**[ ] Graduate Council**

Signed paper copies of proposals submitted for consideration are no longer required. Please type approver name and enter date of approval.

Email completed proposals to [curriculum@astate.edu](mailto:curriculum@astate.edu) for inclusion in curriculum committee agenda.

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| --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | Dr. Ilwoo “Josh” Seok | 9/27/2017 |   **Department Curriculum Committee Chair** | |  |  | | --- | --- | | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Enter date |   **COPE Chair (if applicable)** |
| |  |  | | --- | --- | | Dr. Shivan Haran | 9/27/2017 |   **Department Chair:** | |  |  | | --- | --- | | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Enter date |   **Head of Unit (If applicable)** |
| |  |  | | --- | --- | | Jason Stewart | 9/27/2017 |   **College Curriculum Committee Chair** | |  |  | | --- | --- | | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Enter date |   **Undergraduate Curriculum Council Chair** |
| |  |  | | --- | --- | | Dr. Brandon Kemp | 9/29/2017 |   **College Dean** | |  |  | | --- | --- | | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Enter date |   **Graduate Curriculum Committee Chair** |
| |  |  | | --- | --- | | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Enter date |   **General Education Committee Chair (If applicable)** | |  |  | | --- | --- | | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Enter date |   **Vice Chancellor for Academic Affairs** |

**1.Contact Person** (Name, Email Address, Phone Number)

Shivan Haran; [sharan@astate.edu](mailto:sharan@astate.edu); (870) 972 2088

**2.Proposed Change**

Changes to the text and specification of approved elective courses

**3.Effective Date**

Fall 2018

**4.Justification –** *Please provide details as to why this change is necessary.*

Changes are being made to bring more clarity to the electives that students can take in the Mechanical Engineering major.

**Bulletin Changes**

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| **Instructions** |
| **Please visit** [**http://www.astate.edu/a/registrar/students/bulletins/index.dot**](http://www.astate.edu/a/registrar/students/bulletins/index.dot) **and select the most recent version of the bulletin. Copy and paste all bulletin pages this proposal affects below. Follow the following guidelines for indicating necessary changes.**  **\*Please note: Courses are often listed in multiple sections of the bulletin. To ensure that all affected sections have been located, please search the bulletin (ctrl+F) for the appropriate courses before submission of this form.**  - Deleted courses/credit hours should be marked with a red strike-through (~~red strikethrough~~)  - New credit hours and text changes should be listed in blue using enlarged font (blue using enlarged font).  - Any new courses should be listed in blue bold italics using enlarged font (***blue bold italics using enlarged font***)  *You can easily apply any of these changes by selecting the example text in the instructions above, double-clicking the ‘format painter’ icon 🡪 , and selecting the text you would like to apply the change to.*  *Please visit* [*https://youtu.be/yjdL2n4lZm4*](https://youtu.be/yjdL2n4lZm4) *for more detailed instructions.* |

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**Major in Mechanical Engineering**

**Bachelor of Science in Mechanical Engineering**

A complete 8-semester degree plan is available at http://registrar.astate.edu/.

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| **University Requirements:** |  |
| See University General Requirements for Baccalaureate degrees (p. 41) |  |
| **First Year Making Connections Course:** | **Sem. Hrs.** |
| ENGR 1402, Concepts of Engineering (See Engineering Core Courses) | **-** |
| **General Education Requirements:** | **Sem. Hrs.** |
| See General Education Curriculum for Engineering | **38** |
| **Engineering Core Courses:** | **Sem. Hrs.** |
| Refer to Engineering Core Courses | **27** |
| **Major Requirements:**  Electives denoted by an asterisk (\*) must be chosen from a list of approved electives**~~,~~** which is available from Mechanical Engineering advisors and through the department office. ~~All students must complete at least one thermal/fluid systems stem elective and one mechanical systems stem elective.~~  In addition to the University requirements for all Baccalaureate Degrees, a Bachelor of Sci- ence in Mechanical Engineering requires that one of the two following conditions be met:  1. “C” or better in each course in the 56 hour major courses; **OR** 2. 2.5 (or greater) grade point average in the 56 hour major courses listed below. | **Sem. Hrs.** |
| CHEM 1023, General Chemistry II | 3 |
| ENGR 2411, Mechanics of Materials Laboratory | 1 |
| ENGR 2413, Mechanics of Materials | 3 |
| ENGR 3423, Dynamics | 3 |
| ENGR 3471, Fluid Mechanics Laboratory | 1 |
| ENGR 3473, Fluid Mechanics | 3 |
| ME 2502, Solid Modeling for Mechanical Engineers | 2 |
| ME 3504, Process Monitoring and Control | 4 |
| ME 3513, Mechanical Vibrations | 3 |
| ME 3533, Engineering Thermodynamics II | 3 |
| ME 3613, Control Systems for Mechanical Engineers | 3 |
| ME 4503, Fluid and Thermal Energy Systems | 3 |
| ME 4543, Machine Design | 3 |
| ME 4553, Heat Transfer | 3 |
| ME 4563, Introduction to Manufacturing Processes | 3 |
| ME 4573, Mechanical System Design | 3 |
| ME 4613 Introduction to Mechatronics | 3 |
| PHYS 2044, University Physics II | 4 |
| \*ME Electives  *Students must select 6 credit hours from the following approved ME Electives: ME 3523, Introduction to Robotics Laboratory ME 4523, Introduction to Finite Element Analysis ME 4583, Energy Conversion ME 4593, Design of Heating, Ventilating, and Air-Conditioning Systems* | 6 |
| Professional Development Elective  *This elective may be selected outside the Engineering Programs, subject only to the following list or advisor’s approval. It must make a rational contribution to the student’s personal and professional education goals. Pre-approved Professional Development Electives:*  *MATH 3243, Linear Algebra MATH 3273, Applied Complex Analysis MATH 3303, Modern Algebra I  MATH 3323, Mathematical Modeling MATH 3343, College Geometry MATH 4423, Modern Algebra II MATH 4513, Applied Mathematics MATH 4533, Numerical Methods MATH 4553, Advanced Calculus I MATH 4563, Advanced Calculus II ME 3523, Introduction to Robotics Laboratory ME 4523, Introduction to Finite Element Analysis ME 4593, Design of Heating, Ventilating, and Air-Conditioning Systems STAT 4453, Probability and Statistics I STAT 4463, Probability and Statistics II TECH 3433, AutoCAD 3D Modeling TECH 3453, Advanced Technology Design Solid Works* | 3 |
| **Sub-total** | **60** |
| **Additional Support Course:** | **Sem. Hrs.** |
| MATH 4403, Differential Equations | **3** |
| **Total Required Hours:** | **128** |

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