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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 for inclusion in curriculum committee agenda.

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| Dr. Ilwoo “Josh” Seok | 9/27/2017 |

**Department Curriculum Committee Chair** |

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**COPE Chair (if applicable)** |
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| Dr. Shivan Haran | 9/27/2017 |

**Department Chair:**  |

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**Head of Unit (If applicable)**   |
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| Jason Stewart | 9/27/2017 |

**College Curriculum Committee Chair** |

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**Undergraduate Curriculum Council Chair** |
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| Dr. Brandon Kemp | 9/29/2017 |

**College Dean** |

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**Graduate Curriculum Committee Chair** |
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**General Education Committee Chair (If applicable)**   |

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**Vice Chancellor for Academic Affairs** |

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

Shivan Haran; 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.* |

**2017-2018 ASU-J Undergraduate Bulletin, Page 129**

**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 LaboratoryME 4523, Introduction to Finite Element AnalysisME 4583, Energy ConversionME 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 AlgebraMATH 3273, Applied Complex AnalysisMATH 3303, Modern Algebra I MATH 3323, Mathematical ModelingMATH 3343, College GeometryMATH 4423, Modern Algebra IIMATH 4513, Applied MathematicsMATH 4533, Numerical MethodsMATH 4553, Advanced Calculus IMATH 4563, Advanced Calculus IIME 3523, Introduction to Robotics LaboratoryME 4523, Introduction to Finite Element AnalysisME 4593, Design of Heating, Ventilating, and Air-Conditioning SystemsSTAT 4453, Probability and Statistics ISTAT 4463, Probability and Statistics IITECH 3433, AutoCAD 3D ModelingTECH 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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