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| For Academic Affairs and Research Use Only |
| Proposal Number | ECS02 |
| CIP Code:  |  |
| Degree Code: |  |

**Program Modification Form**

**[X] Undergraduate Curriculum Council**

**[ ] Graduate Council**

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| --- |
| **Modification Type: [ ]Admissions, [X]Curricular Sequence, or [ ]Other**  |

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

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| Alexandr M. Sokolov | 10/7/2022 |

**Department Curriculum Committee Chair** |

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| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Enter date |

**COPE Chair (if applicable)** |
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| Alexandr M. Sokolov | 4/14/2022 |

**Department Chair**  |

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| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Enter date |

**Head of Unit (if applicable)**   |
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| Jason Stewart | 2/8/2023 |

**College Curriculum Committee Chair** |

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| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Enter date |

**Undergraduate Curriculum Council Chair** |
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**Director of Assessment** *(only for changes impacting assessment)* |

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| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Enter date |

**Graduate Curriculum Committee Chair** |
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|  |  |
| --- | --- |
| Abhijit Bhattacharyya  | 2/8/2023 |

**College Dean** |

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| --- | --- |
| Len Frey | 2/22/2023 |

**Vice Chancellor for Academic Affairs** |
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| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Enter date |

**General Education Committee Chair (if applicable)**   |  |

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

Alexandr M. Sokolov

asokolov@astate.edu

1-870-972-3635

1. **Proposed Change** (for undergraduate curricular changes please provide an 8-semester plan (appendix A), if applicable)

**This change is to start in the Spring of 2023.**

**POSC 3003 is being replaced with COMS 3363.**

**Appendix A, 8-Semester Plan**

(**Referenced in #9** - **Undergraduate Proposals Only)**

*Instructions: Please identify new courses in italics*.

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| **Arkansas State University - Jonesboro** |
| **Degree: Bachelor of Science** |
| **Major: Engineering Management Systems** |
| **2020-21** |
| Students requiring developmental course work based on low entrance exam scores (ACT, SAT, ASSET, COMPASS) may not be able to complete this program of study in eight (8) semesters. Developmental courses do not count toward total degree hours. **Students having completed college level courses prior to enrollment will be assisted by their advisor in making appropriate substitutions. In most cases, general education courses may be interchanged between semesters.** A minimum of 45 hours of upper division credit (3000-4000 level) is required for this degree. Mandatory state and institutional assessment exams will be required during your degree program. ***Failure to participate in required assessments may delay graduation.*** |
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|  |
| **Year 1** |   | **Year 1** |  |
| **Fall Semester** |   | **Spring Semester** |  |
| **Course No.** | **Course Name** | **Hrs** | **Gen Ed** |   | **Course No.** | **Course Name** | **Hrs** | **Gen Ed** |  |
| **\*ENG 1003** | Composition I | **3** | X |   | **\*ENG 1013** | Composition II | **3** | X |  |
| **\*SCOM 1203** | Oral Communications | **3** | X |   | **\*ECON 2313** | Principles of Macroeconomics | **3** |   |  |
| **\*MATH 1023** | College of Algebra | **3** | X |   | **\*HIST 2763/2773 or POSC 2103** | US History to **or** since 1876 **or**  Intro to US Government | **3** | X |  |
| **\*ENG 2003 or \*ENG 2013 or PHIL 1103** | Intro to Lit I **or** Intro to Lit II **or** Intro to Philosophy | **3** | X |   | **\*Social Science** | Gen. Ed. Approved Social Science | **3** | X |  |
| **\*UC 1013** | Making Connections | **3** |   |   | **\*ART, MUS or, THEA 2503** | Fine Arts Visual, Musical, Theatre | **3** | X |  |
| **Total Hours** |   | **15** |   |   | **Total Hours** |   | **15** |   |  |
| **Year 2** |   | **Year 2** |  |
| **Fall Semester** |   | **Spring Semester** |  |
| **Course No.** | **Course Name** | **Hrs** | **Gen Ed** |   | **Course No.** | **Course Name** | **Hrs** | **Gen Ed** |  |
| **\*Physical Science** | Gen. Ed. Approved Physical Science | **4** | X |   | **\*Life Science**  | Gen. Ed. Approved Life Science | **3** | X |  |
| **\*Social Science** | Gen. Ed. Approved Social Science | **3** | X |   | **\*Life Science Lab** | Gen. Ed. Approved Life Science Lab | **1** | X |  |
| **\*ECON 2323** | Principles of Microeconomics | **3** |   |   | **\*MGMT 3123** | Principles of Management | **3** |   |  |
| **\*MATH 2143** | Business Calculus | **3** |   |   | **\*ACCT 2133** | Intro to Managerial Accounting | **3** |   |  |
| **\*ACCT 2033** | Intro to Financial Accounting | **3** |  |   | **\*LAW 2023** | Legal Environment of Business | **3** |   |  |
|  |   |  |   |   | **\*Electives** |   | **3** |   |  |
| **Total Hours** |   | **16** |   |   | **Total Hours** |   | **16** |   |  |
| **Year 3** |   | **Year 3** |  |
| **Fall Semester** |   | **Spring Semester** |  |
| **Course No.** | **Course Name** | **Hrs** | **Gen Ed** |   | **Course No.** | **Course Name** | **Hrs** | **Gen Ed** |  |
| **\*TECH 3773** | Statistics | **3** |   |   | **\*TECH 4823** | Quality Assurance | **3** |   |  |
| **\*COMS 3363** | Communication Research Methods | **3** |   |   | ***\*EGRM 3013*** | *Project Management and Practice* | ***3*** |  |  |
| **\*TECH 3863** | Industrial Safety | **3** |   |   | ***\*EGRM 4023*** | *Engineering Management I* | ***3*** |  |  |
| **\*TECH 4813** | Operations Systems Research | **3** |   |   | **\*Electives** |   | **6** |   |  |
| ***\*EGRM 3003*** | *Technical Entrepreneurship* | ***3*** |  |   |  |   |  |   |  |
| **Total Hours** |   | **15** |   |   | **Total Hours** |   | **15** |   |  |
| **Year 4** |   | **Year 4** |  |
| **Fall Semester** |   | **Spring Semester** |  |
| **Course No.** | **Course Name** | **Hrs** | **Gen Ed** |   | **Course No.** | **Course Name** | **Hrs** | **Gen Ed** |  |
| ***\*EGRM 4003*** | *Engineering Management Design I* | ***3*** |  |   | ***\*EGRM 4013*** | *Engineering Management Design II* | ***3*** |  |  |
| ***\*EGRM 4053*** | *Human Resources for Engineers* | ***3*** |  |   | ***\*EGRM 4073*** | *Facilities Management Systems* | ***3*** |  |  |
| ***\*EGRM 4033*** | *Value Engineering Systems* | ***3*** |  |   | ***\*EGRM 4043*** | *Logistics and Supply Chain Systems* | ***3*** |  |  |
| ***\*EGRM 4063*** | *Engineering Management Internship* | ***3*** |  |   | **\*Electives**  |   | **4** |   |  |
| **\*Electives**  |   | **3** |   |   |  |   |   |   |  |
|  |  |   |  |   |  |   |  |   |  |
| **Total Hours** |   | **15** |   |   | **Total Hours** |   | **13** |   |  |
|  |  |  |  |  |  |  |  |  |  |
| **Total Jr/Sr Hours after 1st 30** | **45** |  |  | **Total Degree Hours** | **120** |  |  |
|  |  |  |  |  |  |  |  |  |  |
| **Graduation Requirements:** |   |  |
| Completion of HIST 2763 or HIST 2773 or POSC 2103  |   |  |
| English Proficiency (Grade of C or better in ENG 1003 and ENG 1013) |   |  |
| Grade C or better in all Engineering Management Core courses |   |  |
| 2.00 GPA at ASU |   |  |
| 2.00 GPA Overall |   |  |
| Maximum of 25% of the degree program via examination, PLA, Military or similar means; CLEP (30 hrs max)  |  |
| 45 JR/SR Hours ***after completing 30 hours*** |   |  |
| 120 Total Credit Hours |   |  |
| 18 of last 24 hours must be A-State-Jonesboro courses |   |  |
| Complete half of the last 50% of semester hours through the A-State campus |   |  |
| *\* Course offered online* |  |  |

1. **Effective Date**

SPRING 2023

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

This class will allow engineering management students to better understand how to communicate and get qualitative and quantitative data which is essential for on-job practice. Also, it allows our students the ability to focus on how to be a better engineering manager within the internship course as well as the design 1 & 2 courses.

Most Engineering Management programs across the country do not have a Political analysis course and removing it will make the program more competitive.

**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. Please include a before (with changed areas highlighted) and after of all affected sections.** **\*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.**  |

OLD:

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| Engineering Management Systems, BSA complete 8-semester degree plan is available at https://www.astate.edu/info/academics/degrees/ |
| University Requirements:See University General Requirements for Baccalaureate degrees |
| First Year Making Connections Course |
| **Course Name** | **Sem. Hrs:** | **Term Taken** | **Grade** | **Gen Ed** |
| UC 1013 - Making Connections (or equivalent course) | **Sem. Hrs:** **3** |  |  |  |
| General Education Requirements: |
| Students with this major must take the following: |
| **Course Name** | **Sem. Hrs:** | **Term Taken** | **Grade** | **Gen Ed** |
| MATH 1023 - College Algebra or MATH course that requires MATH 1023 as a prerequisite | **Sem. Hrs:** **3** |  |  |  |
| COMS 1203 - Oral Communication (Required Departmental Gen. Ed. Option) | **Sem. Hrs:** **3** |  |  |  |
| ECON 2313 - Principles of Macroeconomics | **Sem. Hrs:** **3** |  |  |  |
| ECON 2323 - Principles of Microeconomics | **Sem. Hrs:** **3** |  |  |  |
| Major Requirements:Grade of “C” or better required for all Major Requirements |
| **Course Name** | **Sem. Hrs:** | **Term Taken** | **Grade** | **Gen Ed** |
| ACCT 2033 - Introduction to Financial Accounting | **Sem. Hrs:** **3** |  |  |  |
| ACCT 2133 - Introduction to Managerial Accounting | **Sem. Hrs:** **3** |  |  |  |
| EGRM 3003 - Technical Entrepreneurship | **Sem. Hrs:** **3** |  |  |  |
| EGRM 3013 - Project Management and Practice | **Sem. Hrs:** **3** |  |  |  |
| EGRM 4003 - Engineering Management Design I | **Sem. Hrs:** **3** |  |  |  |
| EGRM 4013 - Engineering Management Design II | **Sem. Hrs:** **3** |  |  |  |
| EGRM 4023 - Engineering Management I | **Sem. Hrs:** **3** |  |  |  |
| EGRM 4033 - Value Engineering Systems | **Sem. Hrs:** **3** |  |  |  |
| EGRM 4043 - Logistics and Supply Chain Systems | **Sem. Hrs:** **3** |  |  |  |
| EGRM 4053 - Technical Human Resource Management for Engineers | **Sem. Hrs:** **3** |  |  |  |
| EGRM 4063 - Engineering Management Internship | **Sem. Hrs:** **3** |  |  |  |
| EGRM 4073 - Facilities Management Systems | **Sem. Hrs:** **3** |  |  |  |
| LAW 2023 - Legal Environment of Business | **Sem. Hrs:** **3** |  |  |  |
| MATH 2143 - Business Calculus | **Sem. Hrs:** **3** |  |  |  |
| MGMT 3123 - Principles of Management | **Sem. Hrs:** **3** |  |  |  |
| POSC 3003 - Introduction to Political Analysis | **Sem. Hrs:** **3** |  |  |  |
| TECH 3773 - Statistics | **Sem. Hrs:** **3** |  |  |  |
| TECH 3863 - Industrial Safety | **Sem. Hrs:** **3** |  |  |  |
| TECH 4813 - Operations Systems Research | **Sem. Hrs:** **3** |  |  |  |
| TECH 4823 - Quality Assurance | **Sem. Hrs:** **3** |  |  |  |
| Sub-total: 60 |
| Electives:* Electives **Sem. Hrs: 22**
 |
| Total Required Hours: 120 |

Revisions:

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| Engineering Management Systems, BSA complete 8-semester degree plan is available at https://www.astate.edu/info/academics/degrees/ |
| University Requirements:See University General Requirements for Baccalaureate degrees |
| First Year Making Connections Course |
| **Course Name** | **Sem. Hrs:** | **Term Taken** | **Grade** | **Gen Ed** |
| UC 1013 - Making Connections (or equivalent course) | **Sem. Hrs:** **3** |  |  |  |
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| COMS 1203 - Oral Communication (Required Departmental Gen. Ed. Option) | **Sem. Hrs:** **3** |  |  |  |
| ECON 2313 - Principles of Macroeconomics | **Sem. Hrs:** **3** |  |  |  |
| ECON 2323 - Principles of Microeconomics | **Sem. Hrs:** **3** |  |  |  |
| Major Requirements:Grade of “C” or better required for all Major Requirements |
| **Course Name** | **Sem. Hrs:** | **Term Taken** | **Grade** | **Gen Ed** |
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| EGRM 4003 - Engineering Management Design I | **Sem. Hrs:** **3** |  |  |  |
| EGRM 4013 - Engineering Management Design II | **Sem. Hrs:** **3** |  |  |  |
| EGRM 4023 - Engineering Management I | **Sem. Hrs:** **3** |  |  |  |
| EGRM 4033 - Value Engineering Systems | **Sem. Hrs:** **3** |  |  |  |
| EGRM 4043 - Logistics and Supply Chain Systems | **Sem. Hrs:** **3** |  |  |  |
| EGRM 4053 - Technical Human Resource Management for Engineers | **Sem. Hrs:** **3** |  |  |  |
| EGRM 4063 - Engineering Management Internship | **Sem. Hrs:** **3** |  |  |  |
| EGRM 4073 - Facilities Management Systems | **Sem. Hrs:** **3** |  |  |  |
| LAW 2023 - Legal Environment of Business | **Sem. Hrs:** **3** |  |  |  |
| MATH 2143 - Business Calculus | **Sem. Hrs:** **3** |  |  |  |
| MGMT 3123 - Principles of Management | **Sem. Hrs:** **3** |  |  |  |
| ~~POSC 3003 - Introduction to Political Analysis~~ COMS 3363 – Communication Research Methods | **Sem. Hrs:** **3** |  |  |  |
| TECH 3773 - Statistics | **Sem. Hrs:** **3** |  |  |  |
| TECH 3863 - Industrial Safety | **Sem. Hrs:** **3** |  |  |  |
| TECH 4813 - Operations Systems Research | **Sem. Hrs:** **3** |  |  |  |
| TECH 4823 - Quality Assurance | **Sem. Hrs:** **3** |  |  |  |
| Sub-total: 60 |
| Electives:* Electives **Sem. Hrs: 22**
 |
| Total Required Hours: 120 |

New Bulletin:

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| Engineering Management Systems, BSA complete 8-semester degree plan is available at https://www.astate.edu/info/academics/degrees/ |
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| First Year Making Connections Course |
| **Course Name** | **Sem. Hrs:** | **Term Taken** | **Grade** | **Gen Ed** |
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