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

**New or Modified Course Proposal Form**

**[ ] Undergraduate Curriculum Council**

**[X] Graduate Council**

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| **[ ]New Course, [ ]Experimental Course (1-time offering), or [X]Modified Course (Check one box)** |

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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| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date… **Department Curriculum Committee Chair** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…  **COPE Chair (if applicable)** |
| Alexandr M. Sokolov 4/14/2022 **Department Chair** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…  **Head of Unit (if applicable)** |
| Brandon Kemp 9/1/2022  **College Curriculum Committee Chair** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…  **Undergraduate Curriculum Council Chair** |
| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date… **Director of Assessment (new courses only)** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…  **Graduate Curriculum Committee Chair** |
| Abhijit Bhattacharyya 9/1/2022 **College Dean** | Alan Utter 9/20/2022  **Vice Chancellor for Academic Affairs** |
| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 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 starting term and Bulletin year for new course or modification to take effect**

SPRING 2023

**Instructions:**

*Please complete all sections unless otherwise noted. For course modifications, sections with a “Modification requested?” prompt need not be completed if the answer is “No.”*

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|  | **Current (Course Modifications Only)** | **Proposed (New or Modified)**  *(Indicate “N/A” if no modification)* |
| **Prefix** | **EGRM** | **N/A** |
| **Number\*** | **6103** | **N/A** |
| **Title**  (include a short title that’s 30 characters or fewer) | **Entrepreneurship for Engineers** | **Advanced Technical Entrepreneurship (Adv. Tech. Entrepreneurship)** |
| **Description\*\*** | **Entrepreneurship and innovation from perspectives at the political, social, and personal levels.** | **Advanced Entrepreneurship and innovation from perspectives at the political, social, and personal levels.** |

***\**** Confirm with the Registrar’s Office that number chosen has not been used before and is available for use. For variable credit courses, indicate variable range. *Proposed number for experimental course is 9*.

\*\*Forty words or fewer (excepting prerequisites and other restrictions) as it should appear in the Bulletin.

1. **Proposed prerequisites and major restrictions** **[Modification requested? NO]**

(Indicate all prerequisites. If this course is restricted to a specific major, which major. If a student does not have the prerequisites or does not have the appropriate major, the student will not be allowed to register).

1. **Yes / No** Are there any prerequisites?
   1. If yes, which ones?

Enter text...

* 1. Why or why not?

Enter text...

1. **Yes / No** Is this course restricted to a specific major?
   1. If yes, which major? Enter text...
2. **Proposed course frequency [Modification requested? NO]**

(e.g. Fall, Spring, Summer; if irregularly offered, please indicate, “irregular.”) *Not applicable to Graduate courses.*

Enter text...

1. **Proposed course type [Modification requested? NO]**

Will this course be lecture only, lab only, lecture and lab, activity (e.g., physical education), dissertation/thesis, capstone, independent study, internship/practicum, seminar, special topics, or studio? Please choose one.

Enter text...

1. **Proposed grade type [Modification requested? NO]**

What is the grade type (i.e. standard letter, credit/no credit, pass/fail, no grade, developmental, or other [please elaborate])

Enter text...

1. NO Is this course dual-listed (undergraduate/graduate)?
2. No Is this course cross-listed?

*(If it is, all course entries must be identical including course descriptions. Submit appropriate documentation for requested changes. It is important to check the course description of an existing course when adding a new cross-listed course.)*

**a.** – If yes, please list the prefix and course number of the cross-listed course.

Enter text...

**b.** – **Yes / No** Can the cross-listed course be used to satisfy the prerequisite or degree requirements this course satisfies?

Enter text...

1. No Is this course in support of a new program?

a. If yes, what program?

Enter text...

1. No Will this course be a one-to-one equivalent to a deleted course or previous version of this course (please check with the Registrar if unsure)?

a. If yes, which course?

Enter text...

**Course Details**

1. **Proposed outline** **[Modification requested? No]**

(The course outline should be topical by weeks and should be sufficient in detail to allow for judgment of the content of the course.)

Enter text...

1. **Proposed special features** **[Modification requested? No]**

(e.g. labs, exhibits, site visitations, etc.)

Enter text...

1. **Department staffing and classroom/lab resources**

Enter text...

1. Will this require additional faculty, supplies, etc.?

Enter text...

1. **Yes / No** Does this course require course fees?

*If yes: please attach the New Program Tuition and Fees form, which is available from the UCC website.*

**Justification**

**Modification Justification (Course Modifications Only)**

1. Justification for Modification(s)

This course change is to help students understand the differences between our undergraduate program’s EGRM 3003 Technical Entrepreneurship course which MEM students have tried to register for.

**New Course Justification (New Courses Only)**

1. Justification for course. Must include:

a. Academic rationale and goals for the course (skills or level of knowledge students can be expected to attain)

Enter text...

b. How does the course fit with the mission of the department? If course is mandated by an accrediting or certifying agency, include the directive.

Enter text...

c. Student population served.

Enter text...

d. Rationale for the level of the course (lower, upper, or graduate).

Enter text...

**Assessment**

**Assessment Plan Modifications (Course Modifications Only)**

1. No Do the proposed modifications result in a change to the assessment plan?

*If yes, please complete the Assessment section of the proposal*

**Relationship with Current Program-Level Assessment Process (Course modifications skip this section unless the answer to #18 is “Yes”)**

1. What is/are the intended program-level learning outcome/s for students enrolled in this course? Where will this course fit into an already existing program assessment process?

Enter text...

1. Considering the indicated program-level learning outcome/s (from question #19), please fill out the following table to show how and where this course fits into the program’s continuous improvement assessment process.

*For further assistance, please see the ‘Expanded Instructions’ document available on the UCC - Forms website for guidance, or contact the Office of Assessment at 870-972-2989.*

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| **Program-Level Outcome 1 (from question #19)** | Type outcome here. What do you want students to think, know, or do when they have completed the course? |
| Assessment Measure | Please include direct and indirect assessment measure for outcome. |
| Assessment  Timetable | What semesters, and how often, is the outcome assessed? |
| Who is responsible for assessing and reporting on the results? | Who (person, position title, or internal committee) is responsible for assessing, evaluating, and analyzing results, and developing action plans? |

*(Repeat if this new course will support additional program-level outcomes)*

**Course-Level Outcomes**

1. What are the course-level outcomes for students enrolled in this course and the associated assessment measures?

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| **Outcome 1** | Type outcome here. What do you want students to think, know, or do when they have completed the course? |
| Which learning activities are responsible for this outcome? | List learning activities. |
| Assessment Measure | What will be your assessment measure for this outcome? |

*(Repeat if needed for additional outcomes)*

**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.** |

**MEM program description:**

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| |  |  | | --- | --- | | **Arkansas State University** | **2022-2023 Graduate Bulletin** | |
| |  |  | | --- | --- | | |  | | --- | |  | | | |  |  |  |  |  | | --- | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | |  | | --- | | Engineering Management, MEM | |  |   The Master of Engineering Management (MEM) program, a one-year master’s degree plan consisting of 30 semester credit hours, is designed for all engineers on management career paths as well as for those charged with managing technology in engineering, manufacturing, and other high-tech organizations. The MEM degree program will also benefit engineers pursuing licensure in states where candidates for professional licensure are required to have an additional 30 semester credit hours of coursework beyond the bachelor’s degree or a master’s degree in engineering. The curriculum consists of courses offered by the A-State College of Engineering and Computer Science.  Specific program outcomes are listed below. MEM program graduates will have:   * Graduates of the Master of Engineering Management program will be able to identify critical issues, formulate realistic solutions, evaluate alternatives, and solve technical problems. * Graduates of the Master of Engineering Management program will be able to interpret statistical or deterministic models and concepts as well as apply them to technical problems. * Graduates of the Master of Engineering Management program will be able to communicate effectively, both orally and in writing, to express alternatives and solutions dealing with technical problems. * Graduates of the Master of Engineering Management program will be able to function effectively as a member or leader on a technical team.  MEM ADMISSION REQUIREMENTSUnconditional Admission Status To be granted unconditional admission status for the Masters Engineering Management Program, applicants must have met the following criteria:   1. Meet the minimum requirements for unconditional admission as set by the University. 2. Has passed Calculus I equivalent with a C or better.  Conditional Admission Status An applicant who fails to meet the GPA requirements for unconditional admission status, who lacks the appropriate undergraduate background for a particular certificate or degree program, or whose baccalaureate degree is from an unaccredited institution, may be granted conditional admission status. Accelerated Masters Program Admission Status    1. Undergraduate students seeking admission into the Accelerated Master of Engineering Management program must meet the unconditional admission requirements of Graduate Admissions. 2. Applicants must be enrolled in one of undergraduate programs in the College of Engineering and Computer Science. 3. Has passed Calculus I equivalent with a C or better.  Admission to a Certificate or Degree Program: In addition to meeting the minimum requirements of the University, an applicant for admission to a certificate, master’s, specialist, or doctoral degree program also must meet departmental and/or program requirements. Applicants to a degree program must hold a baccalaureate or higher degree from an accredited four-year institution with the appropriate undergraduate background in the field of the proposed. MEM Degree Requirements The number of semester credit hours for the master’s degree is 30. Students are required to complete core courses (15 semester credit hours) and elective courses (15 semester credit hours). Students must take a minimum of 18 semester hours in courses numbered at the 6000 level. | | UNIVERSITY REQUIREMENTS: See Graduate Degree Policies for additional information MEM PROGRAM REQUIREMENTS:  * EGRM 6003 - Engineering Statistics **Sem. Hrs:** **3** * EGRM 6013 - Quality Control and Improvement **Sem. Hrs:** **3** * EGRM 6053 - Advanced Engineering Economy **Sem. Hrs:** **3** * EGRM 6083 – Advanced Project Management and Practice ~~for Engineers~~ **Sem. Hrs:** **3** * EGRM 600V - Engineering Capstone **Sem. Hrs:** **Variable**  Select fifteen hours from following:  * EGRM 5023 - Engineering Management I **Sem. Hrs:** **3** * EGRM 6033 - Engineering Management II **Sem. Hrs:** **3** * EGRM 6043 - Operations Research **Sem. Hrs:** **3** * EGRM 6063 – Engineering and Computer Science Law and Ethics **Sem. Hrs:** **3** * EGRM 6073 - Special Problems in Engineering Management **Sem. Hrs:** **3** * EGRM 6093 - Advanced Value Engineering **Sem. Hrs:** **3** * EGRM 6103 – Advanced Technical Entrepreneurship ~~for Engineers~~ **Sem. Hrs:** **3** * EGRM 6113 - Finance and Budgeting for Engineering **Sem. Hrs:** **3** * EGRM 6123 - Human Resource Management for Engineers **Sem. Hrs:** **3** * EGRM 6133 - Internship in Engineering **Sem. Hrs:** **3** * EGRM 6143 - Industrial Material Handling **Sem. Hrs:** **3** * EGRM 6153 - Advanced Facilities Management **Sem. Hrs:** **3** * EGRM 6163 - Advanced Logistics and Supply Chain **Sem. Hrs:** **3**  Sub-total: 30TOTAL REQUIRED HOURS: 30 | | | |
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**EGRM Course Descriptions:**

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| **Engineering Management** | |
|  | •  EGRM 600V - Engineering Capstone |
|  | •  EGRM 5023 - Engineering Management I |
|  | •  EGRM 6003 - Engineering Statistics |
|  | •  EGRM 6013 - Quality Control and Improvement |
|  | •  EGRM 6033 - Engineering Management II |
|  | •  EGRM 6043 - Operations Research |
|  | •  EGRM 6053 - Advanced Engineering Economy |
|  | •  EGRM 6063 - Engineering and Computer Science Law and Ethics |
|  | •  EGRM 6073 - Special Problems in Engineering Management |
|  | •  EGRM 6083 – Advanced Project Management and Practice ~~for Engineers~~ |
|  | •  EGRM 6093 - Advanced Value Engineering |
|  | •  EGRM 6103 – Advanced Technical Entrepreneurship ~~for Engineers~~ |
|  | •  EGRM 6113 - Finance and Budgeting for Engineering |
|  | •  EGRM 6123 - Human Resource Management for Engineers |
|  | •  EGRM 6133 - Internship in Engineering |
|  | •  EGRM 6143 - Industrial Material Handling |
|  | •  EGRM 6153 - Advanced Facilities Management |
|  | •  EGRM 6163 - Advanced Logistics and Supply Chain |

**EGRM 6033 Course Description:**

EGRM 6083 – Advanced Project Management and Practice ~~for Engineers~~

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| Print (opens a new window) EGRM 6083 – Advanced Project Management and Practice ~~for Engineers~~ **Sem. Hrs:** **3**  Fundamentals of project management for engineering and information systems projects based on the principles established by the Project Management Institute’s Project Management Body of Knowledge. |

EGRM 6033 - Engineering Management II

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| Print (opens a new window) EGRM 6033 - Engineering Management II **Sem. Hrs:** **3**  ~~Principles and practices of engineering management including marketing management, globalization, time management, forecasting, finance, cost, accounting, managing technology, engineering management in the new millennium; invited lectures and seminars covering projects of interest to civil, electrical, mechanical, and manufacturing engineers in management positions.~~  Principles and practices of engineering management including marketing management, globalization, time management, forecasting, finance, cost, accounting, managing technology, engineering management in the new millennium. |

EGRM 6103 – Advanced Technical Entrepreneurship for Engineers

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| Print (opens a new window) EGRM 6103 – Advanced Technical Entrepreneurship ~~for Engineers~~ **Sem. Hrs:** **3**  ~~Entrepreneurship and innovation from perspectives at the political, social, and personal levels.~~  Advanced Entrepreneurship and innovation from perspectives at the political, social, and personal levels. |

EGRM 6063 - Engineering and Computer Science Law and Ethics

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| Print (opens a new window) EGRM 6063 - Engineering and Computer Science Law and Ethics **Sem. Hrs:** **3**  Introduction and application of legal concepts relating to the field of engineering ~~management~~ and computer science, including general principles, contracts, torts, real property, agency, intellectual property, product liability and safety, and professional legal ethics. |