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

**Program Modification Form**

**[ ] Undergraduate Curriculum Council**

**[X] Graduate Council**

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| --- |
| **Modification Type: [ ]Admissions, [ ]Curricular Sequence, or [X]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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**Department Curriculum Committee Chair** |

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**COPE Chair (if applicable)** |
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| Brandon Kemp | 11/5/2020 |

**Department Chair**  |

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**Head of Unit (if applicable)**   |
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| Brandon Kemp | 11/5/2020 |

**College Curriculum Committee Chair** |

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

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**Graduate Curriculum Committee Chair** |
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| Abhijit Bhattacharyya | 11/5/2020 |

**College Dean** |

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**Vice Chancellor for Academic Affairs** |
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**General Education Committee Chair (if applicable)**   |  |

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

Alexandr M. Sokolov

asokolov@astate.edu

870-972-3635

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

Removing the ABET degree requirement as the BSEMS program will not be ABET

1. **Effective Date**

Fall 2021

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

Make program more competitive and allow undergraduates to be accepted unconditionally to the MEM program.

**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.**  |

**Graduate Bulletin p. 154**

**Program of Study for the Master of Engineering Management Degree**

 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 REQUIREMENTS**:

UNCONDITIONAL 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. Earned a Baccalaureate degree from an Accreditation Board for Engineering and Technology (ABET) accredited program under the Applied and Natural Science Accreditation Commission (ANSAC), Computing Accreditation Commission (CAC), Engineering Accreditation Commission (EAC), or Engineering Technology Accreditation Commission (ETAC).
3. 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

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).

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| --- | --- |
| University Requirements: |   |
| See Graduate Degree Policies for additional information (p. 39) |   |
| MEM Program Requirements: | Sem. Hrs. |
| EGRM 6003, Engineering Statistics | 3 |
| EGRM 6013, Quality Control and Improvement | 3 |
| EGRM 6083, Project Management for Engineers | 3 |
| EGRM 6053, Advanced Engineering Economy | 3 |
| EGRM 600V, Engineering Capstone | 3 |
| Select fifteen hours from following: | 15 |
| EGRM 6023, Engineering Management I |   |
| EGRM 6033, Engineering Management II |   |
| EGRM 6043, Operations Research |   |
| EGRM 6063, Engineering Law and EthicsEGRM 6073, Special Problems in Engineering Management |   |
| EGRM 6093, Value Engineering |   |
| EGRM 6103, Entrepreneurship for Engineers |   |
| EGRM 6113, Finance and Budgeting for Engineering |   |
| EGRM 6123, Human Resource Management for EngineersEGRM 6133, Internship in EngineeringEGRM 6143, Industrial Material HandlingEGRM 6153, Facilities ManagementEGRM 6163, Logistics and Supply Chain |   |
| CE/CS/EE/ME/ENGR course, 5000-level or above |   |
| Sub-total | 30 |
| Total Required Hours: | 30 |

**Certificate of General Engineering Management**

**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.

**CERTIFICATE OF GENERAL ENGINEERING MANAGEMENT REQUIREMENTS**

The number of semester credit hours for the Certificate of General Engineering Management is 12. Students will have to take courses within the Engineering Management Department. Students cannot take EGRM 600V, Engineering Capstone and EGRM 6133, Internship in Engineering.

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| University Requirements: |   |
| See Graduate Degree Policies for additional information (p. 39) |   |
| Certificate Program Requirements: | Sem. Hrs. |
| Select twelve hours from following: | 12 |
| EGRM 6003, Engineering Statistics |  |
| EGRM 6013, Quality Control and Improvement |  |
| EGRM 6023, Engineering Management I |  |
| EGRM 6033, Engineering Management II |  |
| EGRM 6043, Operations Research |  |
| EGRM 6053, Advanced Engineering Economy |  |
| EGRM 6063, Engineering Law and Ethics |  |
| EGRM 6073, Special Problems in Engineering Management |  |
| EGRM 6083, Project Management for Engineers |  |
| EGRM 6093, Value Engineering |  |
| EGRM 6103, Entrepreneurship for Engineers |  |
| EGRM 6113, Finance and Budgeting for Engineering |  |
| EGRM 6123, Human Resource Management for Engineers |  |
| EGRM 6143, Industrial Material Handling |  |
| EGRM 6153, Facilities Management |  |
| EGRM 6163, Logistics and Supply Chain |  |
| Sub-total | 12 |
| Total Required Hours: | 12 |

**Graduate Bulletin p. 154**

**Program of Study for the Master of Engineering Management Degree**

 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 REQUIREMENTS**:

UNCONDITIONAL 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. ~~Earned a Baccalaureate degree from an Accreditation Board for Engineering and Technology (ABET) accredited program under the Applied and Natural Science Accreditation Commission (ANSAC), Computing Accreditation Commission (CAC), Engineering Accreditation Commission (EAC), or Engineering Technology Accreditation Commission (ETAC).~~
3. 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

**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.***

**CERTIFICATE OF GENERAL ENGINEERING MANAGEMENT REQUIREMENTS**

The number of semester credit hours for the Certificate of General Engineering Management is 12. Students will have to take courses within the Engineering Management Department. Students cannot take EGRM 600V, Engineering Capstone and EGRM 6133, Internship in Engineering.

|  |  |
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| University Requirements: |   |
| See Graduate Degree Policies for additional information (p. 39) |   |
| MEM Program Requirements: | Sem. Hrs. |
| EGRM 6003, Engineering Statistics | 3 |
| EGRM 6013, Quality Control and Improvement | 3 |
| EGRM 6083, Project Management for Engineers | 3 |
| EGRM 6053, Advanced Engineering Economy | 3 |
| EGRM 600V, Engineering Capstone | 3 |
| Select fifteen hours from following: | 15 |
| EGRM ~~6023~~ ***5023***, Engineering Management I |  |
| EGRM 6033, Engineering Management II |   |
| EGRM 6043, Operations Research |   |
| EGRM 6063, Engineering Law and EthicsEGRM 6073, Special Problems in Engineering Management |   |
| EGRM 6093, ***Advanced*** Value Engineering |   |
| EGRM 6103, Entrepreneurship for Engineers |   |
| EGRM 6113, Finance and Budgeting for Engineering |   |
| EGRM 6123, Human Resource Management for EngineersEGRM 6133, Internship in EngineeringEGRM 6143, Industrial Material HandlingEGRM 6153, ***Advanced*** Facilities ManagementEGRM 6163, ***Advanced*** Logistics and Supply Chain |   |
| CE/CS/EE/ME/ENGR course, 5000-level or above |   |
| Sub-total | 30 |
| Total Required Hours: | 30 |
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| --- | --- |
| University Requirements: |   |
| See Graduate Degree Policies for additional information (p. 39) |   |
| Certificate Program Requirements: | Sem. Hrs. |
| Select twelve hours from following: | 12 |
| EGRM 6003, Engineering Statistics |  |
| EGRM 6013, Quality Control and Improvement |  |
| EGRM ~~6023~~ ***5023***, Engineering Management I |  |
| EGRM 6033, Engineering Management II |  |
| EGRM 6043, Operations Research |  |
| EGRM 6053, Advanced Engineering Economy |  |
| EGRM 6063, Engineering Law and Ethics |  |
| EGRM 6073, Special Problems in Engineering Management |  |
| EGRM 6083, Project Management for Engineers |  |
| EGRM 6093, ***Advanced*** Value Engineering |  |
| EGRM 6103, Entrepreneurship for Engineers |  |
| EGRM 6113, Finance and Budgeting for Engineering |  |
| EGRM 6123, Human Resource Management for Engineers |  |
| EGRM 6143, Industrial Material Handling |  |
| EGRM 6153, ***Advanced*** Facilities Management |  |
| EGRM 6163, ***Advanced*** Logistics and Supply Chain |  |
| Sub-total | 12 |
| Total Required Hours: | 12 |

**Graduate Bulletin p. 344**

**Engineering Management (EGRM)**

**EGRM 600V. Engineering Capstone** Engineering Capstone research project that includes literature review, data collection, analysis of data, and conclusions. Final project report and oral defense required. May be repeated. Maximum of three hours of letter grade counted toward degree. Must be registered for 1 hour course until capstone project is completed. Approval of program director required.

**EGRM 6003. Engineering Statistics** Basic concepts and methods of descriptive and inferential statistics including graphical techniques, measures of central tendency and dispersion, interval estimation, hypothesis and goodness of fit tests, comparisons of two populations, and analysis of variance.

**EGRM 6013. Quality Control and Improvement** A brief review of the evolution of quality control and improvement theory particularly as influenced by key pioneers such as Deming, Juran, and Taguchi. Extensive coverage of selected quality improvement techniques includes statistical process control, inspection sampling, and design of experiments. Introductory elements of statistics will be introduced.

**EGRM 6023. Engineering Management I** Basic principles and practices of engineering management activities including planning, organization, leadership, controlling, motivating, ethics, communications, and decision making; group research of special topics with written and oral presentations is required.

**EGRM 6033. Engineering Management II** 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

**EGRM 6043. Operations Research** Quantitative techniques for decision making; break-even analysis, economic models, Gaussian distributions, inventory control, production models, and mathematical programming. Introductory elements of statistics will be introduced.

**EGRM 6053. Advanced Engineering Economy** Methodical assessment of the economic benefits and expenditures of projects concerning engineering design and analysis, including economic analysis for decision-making among contending opportunities.

**EGRM 6063. Engineering Law and Ethics** Introduction and application of legal concepts relating to the field of engineering management, including general principles, contracts, torts, real property, agency, intellectual property, product liability and safety, and professional legal ethics.

**EGRM 6073. Special Problems in Engineering Management** Selected advanced topics of current interest. Ordinarily, topics covered are those not available in other graduate courses.

**EGRM 6083. Project Management for Engineers** 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 6093. Value Engineering** Practical application of modern Value Analysis principles to design and modification of products and processes to reduce cost and/or improve performance. Topics covered include functional analysis, functional costing, cost drivers, evaluation of alternative designs, proposal preparation and presentation. Emphasis on management of Value Analysis programs and case studies. Project required.

**EGRM 6103. Entrepreneurship for Engineers** Entrepreneurship and innovation from perspectives at the political, social, and personal levels.

**EGRM 6113. Finance and Budgeting for Engineering** Introduction and orientation to financial matters that concern engineers, with an emphasis on financial statements, cash flows, net present value calculations, and capital budgeting.

**EGRM 6123. Human Resource Management for Engineers** Introduction to the strategic application of human resource management in an organization, including human resource leadership, e-recruitment strategies, equal employment selection, employee retention and turnover, performance management, employment law, diversity and global talent management.

**EGRM 6133 Internship in Engineering** Supervised professional experience in industry at the graduate level. This course provides the structure and focus for a graduate intern field assignment, ensuring that the internship experience is appropriate and consistent with the students course of study and professional development.

**EGRM 6143 Industrial Material Handling** An introduction to the field of material handling, including systems analysis, equipment selection, and the relationship of material handling to other activities and operations of the industrial plant or warehouse. You will learn how to plan and analyze material handling systems; how to improve material handling operations; and when to apply material handling automation.

**EGRM 6153 Facilities Management** Methods of designing new facilities and expanding or renovating existing facilities. Planning facility layout, facility location, and activities are presented. Topics such as analysis of work space, work flow, material handling systems, facility planning data collection methods, process flow-charting, the supply chain management, and economics are covered.

**EGRM 6163 Logistics and Supply Chain** This course is an introduction to logistics in transportation and distribution channels. It offers a description of logistics operations in transportation, concepts of facilities and methods used in supply chain. Third party logistics, fleet management, physical distribution and a number of other concepts are introduced. The course includes highlights on the transportation and distribution business in a local and global scenario.

**Graduate Bulletin p. 344**

**Engineering Management (EGRM)**

***EGRM 5023. Engineering Management I*** *The essentials of management that are pertinent to practicing managers are emphasized. The theory, principles, and techniques are presented as an art and applying the science of the underlying organized knowledge of management to the realities of situations.*

**EGRM 600V. Engineering Capstone** Engineering Capstone research project that includes literature review, data collection, analysis of data, and conclusions. Final project report and oral defense required. May be repeated. Maximum of three hours of letter grade counted toward degree. Must be registered for 1 hour course until capstone project is completed. Approval of program director required.

**EGRM 6003. Engineering Statistics** Basic concepts and methods of descriptive and inferential statistics including graphical techniques, measures of central tendency and dispersion, interval estimation, hypothesis and goodness of fit tests, comparisons of two populations, and analysis of variance.

**EGRM 6013. Quality Control and Improvement** A brief review of the evolution of quality control and improvement theory particularly as influenced by key pioneers such as Deming, Juran, and Taguchi. Extensive coverage of selected quality improvement techniques includes statistical process control, inspection sampling, and design of experiments. Introductory elements of statistics will be introduced.

~~EGRM 6023. Engineering Management I Basic principles and practices of engineering management activities including planning, organization, leadership, controlling, motivating, ethics, communications, and decision making; group research of special topics with written and oral presentations is required.~~

**EGRM 6033. Engineering Management II** 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

**EGRM 6043. Operations Research** Quantitative techniques for decision making; break-even analysis, economic models, Gaussian distributions, inventory control, production models, and mathematical programming. Introductory elements of statistics will be introduced.

**EGRM 6053. Advanced Engineering Economy** Methodical assessment of the economic benefits and expenditures of projects concerning engineering design and analysis, including economic analysis for decision-making among contending opportunities.

**EGRM 6063. Engineering Law and Ethics** Introduction and application of legal concepts relating to the field of engineering management, including general principles, contracts, torts, real property, agency, intellectual property, product liability and safety, and professional legal ethics.

**EGRM 6073. Special Problems in Engineering Management** Selected advanced topics of current interest. Ordinarily, topics covered are those not available in other graduate courses.

**EGRM 6083. Project Management for Engineers** 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 6093. *Advanced* Value Engineering** ~~Practical application of modern Value Analysis principles to design and modification of products and processes to reduce cost and/or improve performance. Topics covered include functional analysis, functional costing, cost drivers, evaluation of alternative designs, proposal preparation and presentation. Emphasis on management of Value Analysis programs and case studies. Project required.~~ *Advanced application of techniques which maximize the value of products, processes, construction, or services. Topics covered include functional analysis, functional costing, generation of alternative designs, evaluation of alternative designs, lifecycle cost analysis, proposal preparation, and presentations.*

**EGRM 6103. Entrepreneurship for Engineers** Entrepreneurship and innovation from perspectives at the political, social, and personal levels.

**EGRM 6113. Finance and Budgeting for Engineering** Introduction and orientation to financial matters that concern engineers, with an emphasis on financial statements, cash flows, net present value calculations, and capital budgeting.

**EGRM 6123. Human Resource Management for Engineers** Introduction to the strategic application of human resource management in an organization, including human resource leadership, e-recruitment strategies, equal employment selection, employee retention and turnover, performance management, employment law, diversity and global talent management.

**EGRM 6133 Internship in Engineering** Supervised professional experience in industry at the graduate level. This course provides the structure and focus for a graduate intern field assignment, ensuring that the internship experience is appropriate and consistent with the students course of study and professional development.

**EGRM 6143 Industrial Material Handling** An introduction to the field of material handling, including systems analysis, equipment selection, and the relationship of material handling to other activities and operations of the industrial plant or warehouse. You will learn how to plan and analyze material handling systems; how to improve material handling operations; and when to apply material handling automation.

**EGRM 6153 *Advanced* Facilities Management** ~~Methods of designing new facilities and expanding or renovating existing facilities. Planning facility layout, facility location, and activities are presented. Topics such as analysis of work space, work flow, material handling systems, facility planning data collection methods, process flow-charting, the supply chain management, and economics are covered.~~ *Advanced methods of designing new facilities and expanding or renovating existing facilities, facility layout, facility location, and activities are presented. Topics such as analysis of workspace, workflow, material handling systems, facility planning data collection methods, and process flow-charting are covered.*

**EGRM 6163 *Advanced* Logistics and Supply Chain** ~~This course is an introduction to logistics in transportation and distribution channels. It offers a description of logistics operations in transportation, concepts of facilities and methods used in supply chain. Third party logistics, fleet management, physical distribution and a number of other concepts are introduced. The course includes highlights on the transportation and distribution business in a local and global scenario.~~ *Advanced topics of logistics operations in transportation, concepts of facilities and methods used in supply chain. Third party logistics, fleet management, physical distribution and a number of other concepts are introduced.*

**Appendix A, 8-Semester Plan**

(**Referenced in #2** - **Undergraduate Proposals Only)**

*Instructions: Please identify new courses in italics*.

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| **Arkansas State University-Jonesboro****Degree:****Major:****Year:** |
| 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. |
| **Year 1** |  | **Year 1** |
| **Fall Semester** |  | **Spring Semester** |
| **Course No.** | **Course Name** | **Hrs** | **Gen Ed** |  | **Course No.** | **Course Name** | **Hrs** | **Gen Ed** |
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| **Total Hours** |  |  |  |  | **Total Hours** |  |  |  |
| **Year 2** |  | **Year 2** |
| **Fall Semester** |  | **Spring Semester** |
| **Course No.** | **Course Name** | **Hrs** | **Gen Ed** |  | **Course No.** | **Course Name** | **Hrs** | **Gen Ed** |
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| **Year 3** |  | **Year 3** |
| **Fall Semester** |  | **Spring Semester** |
| **Course No.** | **Course Name** | **Hrs** | **Gen Ed** |  | **Course No.** | **Course Name** | **Hrs** | **Gen Ed** |
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| **Year 4** |  | **Year 4** |
| **Fall Semester** |  | **Spring Semester** |
| **Course No.** | **Course Name** | **Hrs** | **Gen Ed** |  | **Course No.** | **Course Name** | **Hrs** | **Gen Ed** |
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| **Total Hours** |  |  |  |  | **Total Hours** |  |  |  |
| **Total Jr/Sr Hours \_\_\_ Total Degree Hours \_\_\_** |
| **Graduation Requirements:** |