Master of Science in Engineering  
University of Wisconsin-Platteville  
Degree Program Plan  
* Not an Official Transcript*

Name: ___________________________  Student ID: ___________________

Date Admitted: ____________________  Date Program Plan Revised: _______________

Emphasis: ________________________  Advisor: Tara Krueger

The following are the general requirements for all master’s degrees from the University of Wisconsin-Platteville School of Graduate Studies.

1. All students must complete a minimum of 30 graduate credits.
2. At least 21 credits must be earned in courses open only to graduate students (7000 level)
3. A minimum of 18 credits required for a MS in Engineering degree must be earned from the University of Wisconsin-Platteville.
4. Courses in the 5000 and 6000 levels are open to graduate students for graduate credit, provided the corresponding undergraduate courses were NOT taken.
5. Graduate students must maintain a 3.00 grade point average (GPA). Graduate credits with a grade lower than “C-” will NOT be counted towards the degree, but will be included in the GPA.
6. Graduate students are allowed seven years from the date of admissions into a master’s program to complete degree requirements.
7. Transfer of credits requires approval by the student’s graduate advisor, Program Coordinator, and the Dean of the Graduate Studies.
8. Only courses with an earned grade of “B” or higher will be considered for transfer.

Transfer Courses Approved:

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Institution</th>
<th>Substitution</th>
<th>Credits Received</th>
<th>Credits Accepted</th>
<th>Recommended by (name/date)</th>
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Courses in red indicate unofficial coursework.

Program Coordinator: ________________________________________ Date: __________________
Dean of Graduate Studies: _____________________________________ Date: __________________

Core Competencies
One course must be taken from each area for a total of 12 credits. If you plan to take ENGRG 6050 or ENGRG 7070, you may want to refresh your knowledge of integrals and derivatives. All courses are 3 credits.

Mathematics (ENGRG 5030 or ENGRG 6050)

Course Taken ____________________________

<table>
<thead>
<tr>
<th>Transfer Course?</th>
<th>Semester Taken</th>
<th>Number of Credits</th>
<th>Grade Earned</th>
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Computer Applications (ENGRG 7030 or ENGRG 7070)

Course Taken ____________________________

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### Engineering Communications
- ENGRG 5000 Engineering Communications

### Engineering Management
- ENGRG 7800 Engineering Management

### Technical Emphasis Area
You must complete nine credits from one emphasis area.
1. Course Taken _________________________________
2. Course Taken _________________________________
3. Course Taken _________________________________

#### Engineering Design Emphasis
- ENGRG 7070 Optimization with Engineering Applications
- ENGRG 7510 Design of Experiments
- ENGRG 7520 Design for Manufacturability
- ENGRG 7540 Advanced Finite Element Analysis
- ENGRG 7550 Product Design and Development

#### Control (Electrical) Systems
- ENGRG 7310 Control Systems Engineering
- ENGRG 7320 Modern Control Systems
- ENGRG 7340 Digital Control Systems

#### Applications of Engineering Management
- ENGRG 7810 Advanced Production and Operations Analysis
- ENGRG 7820 Quality Engineering and Management
- ENGRG 7830 Advanced Cost and Value Analysis
- ENGRG 7840 Systems Engineering Management
- ENGRG 7850 Taguchi Method of Designing Experiments
- ENGRG 7860 Continuous Improvement with Lean Principles
- PRJMGT 7010 Project Management Techniques I

#### Elective Courses
You must complete nine credits of courses not already taken to satisfy requirements. In addition to the courses listed above, the following are accepted as electives.
1. Course Taken _________________________________
2. Course Taken _________________________________
3. Course Taken _________________________________

- BSAD 5720 International Marketing
- BSAD 6100 Supply Chain Management or ISCM 7100 International Supply Chain Management
- PROJMGT 7020 Project Management Techniques II
- ENGRG 6230 Structural Steel Design
- ENGRG 7220 Dynamics of Structures
- ENGRG 7260 Advanced Shall Foundation Design with LRFD Applications
- ENGRG 7270 Advanced Deep Foundation Design with LRFD Applications
- ENGRG 7280 Geosynthetics Engineering
- ENGRG 7290 Earth Retaining Structures: Design, Analysis and LRFD
- ENGRG 7930 Special Topics in Engineering (1-3 credits)
- ENGRG 7980 Independent Study in Engineering (1-3 credits)

### Summary:
- Credits Earned at 7000 level: _____  
- Credits Earned to Date: ______
- Transfer Credits at 7000 level: _____  
- Total Transfer Credits: ______
- Total Credits at 7000 level: _____ (21 required)  
- Total Credits Awarded: _____ (30 required)