MODERN ENGINEERING LEADERSHIP, GRADUATE CERTIFICATE

Admission Requirements

Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission
The minimum GPA for admission is 2.75 in the prior bachelor’s or post-baccalaureate degree. Applicants should generally have a prior degree in engineering or computer science. Applicants with other prior degrees will be considered via holistic assessment of the academic record and professional experience, with a focus on substantial work experience in the engineering or computing fields and on adequate mathematics preparation for the required coursework.

Credits and Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EAS 710</td>
<td>Managing Human Resources and Teams</td>
<td>3</td>
</tr>
<tr>
<td>IND ENG 890</td>
<td>Advanced Topics in Industrial and Systems Engineering:</td>
<td>3</td>
</tr>
<tr>
<td>IND ENG 716</td>
<td>Engineering Statistical Analysis</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 411G</td>
<td>Machine Learning and Applications</td>
<td>3</td>
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</tbody>
</table>

Electives
Electives may be taken in any topic taught by the College of Engineering and Applied Science.

Total Credits 15

Additional Requirements

Transfer Credit
No more than 20% of the required credits may be taken at an institution other than UWM. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

Grade Point Average Requirement
A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

Articulation with Degree Programs
1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
   - Degree programs must approve the courses from certificates that can double count toward the degree.
   - All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
   - Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
3. A course may count toward no more than one certificate and one degree.
4. Students may not earn a certificate subsequent to a concentration in the same area.

Time Limit
Certificate program time limits shall be established as follows:
- 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
- 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.