# Engineering Management Analytics (EMGA)

## Graduate Certificate in Engineering Management Analytics

**Admissions requirements:**

1. Meet all graduate school admission requirements.
2. Conferred bachelor of science degree in engineering from an engineering program accredited by the Engineering Accreditation Commission of ABET (or equivalent accreditation) or a STEM degree from a regionally accredited program..
3. Applicants with a 3.0/4.0 or better undergraduate GPA are not required to take the GRE.
4. There are no prerequisites for students with an undergraduate degree from an ABET-accredited engineering program.
5. For students with a degree other than an ABET-accredited engineering degree, prerequisite courses may be required.
6. Only students with an ABET- accredited engineering degree may apply the graduate certificate courses to the Master of Science in Engineering Management Degree.

**Required Courses:**

**Core Courses (9 hours)**

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|---|---|---|
| EMGT 57003 | Probability and Statistics for Engineering Management | 3 |
| EMGT 50503 | Tradeoff Analytics for Engineering Management | 3 |
| EMGT 54403 | Decision Models | 3 |
| **Electives (select one)** | | **3** |
| OPAN 50003 | Introduction to Operations Analytics | |
| OMGT 56503 | Introduction to Data Analytics for Operations Managers | |
| INEG 54303 | Cost Estimation Models | |
| EMGT 57703 | Engineering Risk Analysis | |
| **Total Hours** | | **12** |