Rensselaer’s Master of Engineering in Systems Engineering and Technology Management is a radical departure from traditional advanced degrees. Starting with four fundamental courses, the degree expands to include the student’s choice of two Certificates ranging from Business Analytics to Lean Production to Artificial Intelligence.

Designed for working professionals, the program is taught by Rensselaer’s outstanding and highly-ranked engineering faculty. The program provides opportunities to learn through application. You choose projects that help propel you forward in your career. Students in the program are working professionals with a wide variety of backgrounds and experiences.

Are you ready to change the world? Then Rensselaer’s Master of Systems Engineering and Technology Management is right for you.

**Degree Information:**

The program results in a Master of Engineering in Systems Engineering and Technology Management degree from Rensselaer Polytechnic Institute.

In addition to completing four core courses in the program, you choose two certificates to add to your credentials and to complete the degree with your specific interests in mind.

The program is delivered using online and blended instruction designed to fit into the lives of busy professionals.

Professional Projects are applied projects students develop with faculty to demonstrate program mastery.

**Accelerated Application Process:**

A dedicated admissions officer will guide you through the process from start to finish as you prepare and submit required application components.

An admissions decision will be made within 2 weeks of application submission.

To get started, contact Education for Working Professionals Enrollment: ewp@rpi.edu, ewp.rpi.edu, or 860-548-5331.

**Online Application Requirements:**

- Application
- Resume
- Personal Statement
- $75 Application fee

**Additional Requirements:**

- Official Transcripts
- Two letters of recommendation
<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ISYE 4240</td>
<td><strong>Engineering Project Management</strong>: This course covers the aspects of defining, planning, implementing, and managing technical projects. Project Management Software is used extensively. Coursework will lead to understanding in a full spectrum of activities: project selection, writing RFPs, planning, stochastic analysis for risk estimation, budgeting, Earned Value Analysis, and control. Students will acquire a sound understanding of project management practice and will be equipped to take a lead role in projects.</td>
<td>3</td>
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<tr>
<td>ENGR 6100</td>
<td><strong>Business Issues for Engineers</strong>: Investigates business-related considerations in successfully commercializing new technology in a new venture or within an existing enterprise: market and customer analysis, beating the competition, planning and managing for profitability, high-tech marketing and sales, and business partnerships and acquisitions.</td>
<td>3</td>
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<tr>
<td>ISYE 6620</td>
<td><strong>Discrete-Event Simulation</strong>: A development of a simulation language in order to progress through a series of increasingly sophisticated applications of computer simulation. Projects include production systems, inventory, finance, transportation, and public systems. The course includes model development, statistical analysis of simulation input/output data, validation planning, and managing simulation projects.</td>
<td>3</td>
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<tr>
<td>ISYE 6610</td>
<td><strong>System Modeling in Decision Sciences</strong>: Decision science methodologies in the context of technical and economic decision problems. The course develops a conceptual framework for these methods in implementation. The course applies decision science methods to problem recognition and data development through problem formulation and computer solution</td>
<td>3</td>
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Any two of the following Certificates:  

**Business Intelligence**
- ENGR 6200: Data-driven Decision Making  
- ENGR 6215: Business Intelligence Analysis  
- ENGR 6216: Modeling Business Decisions

**Health Analytics**
- ENGR 6200: Data-driven Decision Making  
- ENGR 6210: Health Industry Analysis  
- ENGR 6211: Modeling Health Decisions

**Production Analytics**
- ENGR 6200: Data-driven Decision Making  
- ENGR 6205: Production & Logistics Analysis  
- ENGR 6206: Modeling Production Decisions

**Lean Quality in Production**
- ENGR 6230: Lean Six Sigma I  
- ENGR 6231: Lean Six Sigma II  
- ISYE 6970: Professional Project

**Machine Learning & AI**
- ENGR 6220: Data Architecture  
- ENGR 6221: Machine Learning Frameworks  
- ENGR 6222: Deep Learning in AI Systems

**New Certificates**
- Information about the newest certificate programs can be found online at ewp.rpi.edu.

Total Credit Hours: 30