The Master of Science in Engineering Management (MSEM) degree program combines advanced course work in highly-specialized technical fields with a professional education in contemporary business, entrepreneurship, and management practices. Graduates of the program will be provided with the educational background to pursue professional management roles in industry.

Facilities
The MSEM program has a dedicated seminar room housed in Wyman. Students are able to study, conduct research and build prototypes within this space.

Graduate Requirements
Please consult directly with the MSEM program director or MSEM academic advisor to confirm the below requirements; changes may have occurred since this annual publication.

Students in the MSEM program take ten courses to fulfill degree requirements, with the following guidelines:

• Five advanced courses in the engineering technical track
• Three full-fall semester management courses, fall and spring MSEM Seminar courses, two half-semester required courses in the spring. plus students may choose from a list of approved half-semester courses to complete their elective, in addition to EN.662.643, The Practice of Consulting, taken during the intersession.
• No grade lower than C may be applied to the program
• Courses must be at the graduate level
• Departments sponsoring technical tracks may impose stricter requirements for course work within the track.
• Students are additionally required to complete EN.500.603 Graduate Orientation and Academic Ethics, which does not count towards the degree requirements above.

At the discretion of the student’s advisors, an MSEM student may be permitted to double-count up to two JHU courses, or apply graduate courses taken at JHU or elsewhere but not applied to a degree, in accordance with conditions in the WSE Policy on Double-Counting Courses.

Advising
MSEM students will receive advising on the technical track from a designated faculty member affiliated with that track. MSEM students will be advised regarding the management track by members of the Center for Leadership Education faculty.

Faculty
Faculty members teaching the technical track courses are listed in their respective engineering departments elsewhere in this catalogue. Faculty members teaching the management track courses are listed in the Center for Leadership Education section of this catalogue.
EN.510.621 Biomolecular Materials I - Soluble Proteins and Amphiphiles 3

Total Credits 6

Substitutions for required courses can be made at the advisor’s discretion.

Electives
- Electives should be related to Materials Science and Engineering and must be approved by the DMSE graduate committee
- See list of pre-approved elective courses or courses off list by petition

List of Pre-approved Electives

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EN.510.400</td>
<td>Introduction to Ceramics</td>
<td>3</td>
</tr>
<tr>
<td>EN.510.403</td>
<td>Materials Characterization</td>
<td>3</td>
</tr>
<tr>
<td>EN.510.405</td>
<td>Materials Science of Energy Technologies</td>
<td>3</td>
</tr>
<tr>
<td>EN.510.422</td>
<td>Micro and Nano Structured Materials &amp; Devices</td>
<td>3</td>
</tr>
<tr>
<td>EN.510.426</td>
<td>Biomolecular Materials I - Soluble Proteins and Amphiphiles</td>
<td>3</td>
</tr>
<tr>
<td>EN.510.428</td>
<td>Material Science Laboratory I</td>
<td>3</td>
</tr>
<tr>
<td>EN.510.429</td>
<td>Materials Science Laboratory II</td>
<td>3</td>
</tr>
<tr>
<td>EN.510.430</td>
<td>Biomaterials Lab</td>
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</tr>
<tr>
<td>EN.510.604</td>
<td>Mechanical Properties of Materials</td>
<td>3</td>
</tr>
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<td>EN.510.605</td>
<td>Electrical, Optical and Magnetic Properties of Materials</td>
<td>3</td>
</tr>
<tr>
<td>EN.510.607</td>
<td>Biomaterials II: Host response and biomaterials applications</td>
<td>3</td>
</tr>
<tr>
<td>EN.510.657</td>
<td>Materials Science of Thin Films</td>
<td>3</td>
</tr>
</tbody>
</table>

Courses not on this list can be used at the advisor’s discretion.

Chemical and Biomolecular Engineering
(Sponsored by the Department of Chemical and Biomolecular Engineering (https://e-catalogue.jhu.edu/engineering/chemical-biomolecular-engineering/))

Students must take five courses:
- Two semesters of Product Design EN.540.690 Chemical and Biomolecular Engineering Design-EN.540.691 Product Design 1
- Two ChemBE Courses (540.6xx)
- One approved elective in Engineering, Science, Math, or Applied Math

Substitutions for courses can be made at the advisor’s discretion.

Chemical Product Design
(Sponsored by the Department of Chemical and Biomolecular Engineering (https://e-catalogue.jhu.edu/engineering/chemical-biomolecular-engineering/))

Students must take five courses:

- Any two courses from 540.6xx or above, or 545.6xx or above (excluding seminar)

Courses not on this list can be approved at the advisor’s discretion.

Communications Science
(Sponsored by the Department of Electrical & Computer Engineering (https://e-catalogue.jhu.edu/engineering/electrical-computer-engineering/))

Students may select any combination of 5 courses in communications and related fields from the list below.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EN.520.435</td>
<td>Digital Signal Processing</td>
<td>3</td>
</tr>
<tr>
<td>EN.520.447</td>
<td>Information Theory</td>
<td>3</td>
</tr>
<tr>
<td>EN.520.646</td>
<td>Wavelets &amp; Filter Banks</td>
<td>3</td>
</tr>
<tr>
<td>EN.520.651</td>
<td>Foundations of Probabilistic Machine Learning</td>
<td>4</td>
</tr>
<tr>
<td>EN.520.652</td>
<td>Filtering and Smoothing</td>
<td>3</td>
</tr>
<tr>
<td>EN.520.666</td>
<td>Information Extraction</td>
<td>3</td>
</tr>
<tr>
<td>EN.520.735</td>
<td>Sensory Information Processing</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits 22

Substitutions for required courses can be made at the advisor’s discretion.

Computer Science
(Sponsored by the Department of Computer Science (https://e-catalogue.jhu.edu/engineering/computer-science/))

Curricular Requirements
- Any five regular graduate courses approved by the advisor, 400-level or higher, from the Department of Computer Science, not including the senior thesis. Three 1-credit graduate courses may be combined to constitute one regular graduate course.

Cybersecurity
(Sponsored by the Information Security Institute)

Pre-Requisites:
• Entering students are expected to have completed a program of study equivalent to that required by at least an undergraduate minor in computer science and a computer science BS is recommended.
• Applicants from other disciplines must have coursework (or equivalent experience) in Computer System Fundamentals, Programming, Data Structures, and Discrete Math.
• If the necessary background courses are lacking, students must take undergraduate courses to possess these prerequisites. These courses will not count toward the MSEM degree but will appear on the transcript.

Curricular Requirements (5):

• A combination of five graduate courses, 600-level or higher, are taken from the Information Security Institute required as below:
  • Two courses from the Core Technology and/or the Elective Technology course lists;
  • One Core Policy course and one Core Management course;
  • The fifth course from any of the above course categories.
• No more than three graduate-level courses by the Information Security Institute may be taken in one semester by an MSEM student in this track.

Energy
(Sponsored by the Department of (https://e-catalogue.jhu.edu/engineering/mechanical-engineering/) Environmental Health & Engineering (https://ehe.jhu.edu/))

Required Courses:
Approval of substitutions for required courses are at the discretion of the technical advisor.

Energy Technology Group: choose at least 1
030.404 Electrochemical Systems for Energy Conversion and Storage
510.405 Materials Science of Energy Technologies
510.627 Photovoltaics and Energy Devices
540.619 Projects in Design: Alternative Energy
540.630 Thermodynamics, Statistical Mechanics and Kinetics

Systems Management Group: choose at least 1
520.629 Networked Dynamical Systems
530.664 Energy Systems Analysis
570.607 Energy Policy and Planning Models
570.697 Risk and Decision Analysis

Electives: (choose up to 3)
030.403 Optoelectronic Materials and Devices: Synthesis, Spectroscopy, and Applications
271.402 Water, Energy and Food
410.777 Biofuels
425.604 Energy and Climate Finance
425.616 Environmental Consequences of Conventional Energy Generation
425.601 Principles and Applications of Energy Technology
425.625 Solar Energy: Science, Technology and Policy
425.640 The Future of the US Electric System in a Carbon-Constrained World
530.629 Simulation and Analysis of Ocean Wave Energy Systems
570.657 Air Pollution
570.695 Environmental Health and Engineering Systems Design
615.448 Alternative Energy Technology
680.697 Global Energy Fundamentals
680.714 Energy, Environment and Development in Developing Countries
680.730 Global Electricity Markets
680.790 Principles of Energy Economics and Finance
680.792 The Water, Energy and Food Nexus
680.855 Life Cycle Assessment
680.852 Energy Poverty
810.761 Energy in the Americas: Conflict, Cooperation and Future Prospects

Other elective courses must be approved at the advisor’s discretion.

Fluid Mechanics
(Sponsored by the Department of Mechanical Engineering (https://e-catalogue.jhu.edu/engineering/mechanical-engineering/))

Any five courses in Fluid Mechanics or closely related discipline, at the 400-level or higher, as approved by the Faculty advisor. At least two of the required track courses must be at the 600-level or higher.

Materials Science & Engineering
(Sponsored by the Department of Materials Science & Engineering (https://e-catalogue.jhu.edu/engineering/materials-science-engineering/))

Prerequisites
• UG calculus, chemistry and physics; biology is recommended

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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</tr>
</thead>
<tbody>
<tr>
<td>EN.510.601</td>
<td>Structure Of Materials</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits 3

Substitutions for required courses can be made at the advisor’s discretion.

Electives
• See list of pre-approved elective courses or courses off list by petition

Recommended Structure

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<td>Materials Science of Thin Films</td>
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</table>

Alternative selections can be made at the advisor’s discretion.

Mechanical Engineering
(Sponsored by the Department of Mechanical Engineering (https://e-catalogue.jhu.edu/engineering/mechanical-engineering/))
Required Courses
Any five courses in Mechanical Engineering or closely related discipline at the 400-level or higher, as approved by the Faculty advisor. At least two of the required technical courses must be at the 600-level or higher.

Alternative selections can be made at the advisor’s discretion.

Mechanics and Materials
(Sponsored jointly by the Department of Mechanical Engineering (https://e-catalogue.jhu.edu/engineering/mechanical-engineering/) and the Department of Materials Science & Engineering (https://e-catalogue.jhu.edu/engineering/materials-science-engineering/))

Substitutions for required courses can be made at the advisor’s discretion.

Elective Courses
Any two (2) of the following courses, approved by the faculty advisor:

Alternative selections can be made at the advisor’s discretion.

Nano-Biotechnology
(Sponsored by the Department of Materials Science & Engineering (https://e-catalogue.jhu.edu/engineering/materials-science-engineering/))

Prerequisites
• UG calculus, chemistry, biology, physics and introductory biomaterials course equivalent to Biomaterials I (EN.510.316)

Substitutions for required courses can be made at the advisor’s discretion.

Electives
• Electives should be related to Materials Science and Engineering and must be approved by the DMSE graduate committee
• See list of pre-approved elective courses or courses off list by petition

Recommended Structure

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</tr>
</tbody>
</table>

Total Credits 6

List of Pre-approved Electives

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<td>Materials Science of Thin Films</td>
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</table>

Alternative selections can be made at the advisor’s discretion.

Nanomaterials and Nanotechnology
(Sponsored by the Department of Materials Science & Engineering (https://e-catalogue.jhu.edu/engineering/materials-science-engineering/))

Prerequisites
• UG calculus, chemistry, and physics

Substitutions for required courses can be made at the advisor’s discretion.

Electives
• Electives should be related to Materials Science and Engineering and must be approved by the DMSE graduate committee
• See list of pre-approved elective courses or courses off list by petition

Recommended Structure

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EN.510.422 (Required)</td>
<td>Micro and Nano Structured Materials &amp; Devices</td>
<td>3</td>
</tr>
</tbody>
</table>

See list of pre-approved elective courses or courses off list by petition

Total Credits 3
Any five courses from the following list, or a substitution as approved by the student's track advisor. As course offerings vary over time, an updated list of acceptable courses will be maintained on the MSEM program website.

### Operations Research
(Sponsored by the Department of Applied Mathematics & Statistics ([https://e-catalogue.jhu.edu/engineering/applied-mathematics-statistics/](https://e-catalogue.jhu.edu/engineering/applied-mathematics-statistics/))

Substitutions for required courses can be made at the advisor's discretion.

Any five courses from the following list, or a substitution as approved by the student's track advisor. As course offerings vary over time, an updated list of acceptable courses will be maintained on the MSEM program website.

### Operations Research
(Sponsored by the Department of Applied Mathematics & Statistics ([https://e-catalogue.jhu.edu/engineering/applied-mathematics-statistics/](https://e-catalogue.jhu.edu/engineering/applied-mathematics-statistics/))

Substitutions for required courses can be made at the advisor's discretion.

Any five courses from the following list, or a substitution as approved by the student's track advisor. As course offerings vary over time, an updated list of acceptable courses will be maintained on the MSEM program website.

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Substitutions for required courses can be made at the advisor's discretion.

Any five courses from the following list, or a substitution as approved by the student's track advisor. As course offerings vary over time, an updated list of acceptable courses will be maintained on the MSEM program website.

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(Sponsored by the Department of Applied Mathematics & Statistics ([https://e-catalogue.jhu.edu/engineering/applied-mathematics-statistics/](https://e-catalogue.jhu.edu/engineering/applied-mathematics-statistics/))

Substitutions for required courses can be made at the advisor's discretion.

Any five courses from the following list, or a substitution as approved by the student's track advisor. As course offerings vary over time, an updated list of acceptable courses will be maintained on the MSEM program website.

### Operations Research
(Sponsored by the Department of Applied Mathematics & Statistics ([https://e-catalogue.jhu.edu/engineering/applied-mathematics-statistics/](https://e-catalogue.jhu.edu/engineering/applied-mathematics-statistics/))

Substitutions for required courses can be made at the advisor's discretion.

Any five courses from the following list, or a substitution as approved by the student's track advisor. As course offerings vary over time, an updated list of acceptable courses will be maintained on the MSEM program website.

### Operations Research
(Sponsored by the Department of Applied Mathematics & Statistics ([https://e-catalogue.jhu.edu/engineering/applied-mathematics-statistics/](https://e-catalogue.jhu.edu/engineering/applied-mathematics-statistics/))

Substitutions for required courses can be made at the advisor's discretion.

Any five courses from the following list, or a substitution as approved by the student's track advisor. As course offerings vary over time, an updated list of acceptable courses will be maintained on the MSEM program website.

### Operations Research
(Sponsored by the Department of Applied Mathematics & Statistics ([https://e-catalogue.jhu.edu/engineering/applied-mathematics-statistics/](https://e-catalogue.jhu.edu/engineering/applied-mathematics-statistics/))

Substitutions for required courses can be made at the advisor's discretion.

Any five courses from the following list, or a substitution as approved by the student's track advisor. As course offerings vary over time, an updated list of acceptable courses will be maintained on the MSEM program website.

### Operations Research
(Sponsored by the Department of Applied Mathematics & Statistics ([https://e-catalogue.jhu.edu/engineering/applied-mathematics-statistics/](https://e-catalogue.jhu.edu/engineering/applied-mathematics-statistics/))

Substitutions for required courses can be made at the advisor's discretion.

Any five courses from the following list, or a substitution as approved by the student's track advisor. As course offerings vary over time, an updated list of acceptable courses will be maintained on the MSEM program website.

### Operations Research
(Sponsored by the Department of Applied Mathematics & Statistics ([https://e-catalogue.jhu.edu/engineering/applied-mathematics-statistics/](https://e-catalogue.jhu.edu/engineering/applied-mathematics-statistics/))

Substitutions for required courses can be made at the advisor's discretion.

Any five courses from the following list, or a substitution as approved by the student's track advisor. As course offerings vary over time, an updated list of acceptable courses will be maintained on the MSEM program website.

### Operations Research
(Sponsored by the Department of Applied Mathematics & Statistics ([https://e-catalogue.jhu.edu/engineering/applied-mathematics-statistics/](https://e-catalogue.jhu.edu/engineering/applied-mathematics-statistics/))

Substitutions for required courses can be made at the advisor's discretion.

Any five courses from the following list, or a substitution as approved by the student's track advisor. As course offerings vary over time, an updated list of acceptable courses will be maintained on the MSEM program website.

### Operations Research
(Sponsored by the Department of Applied Mathematics & Statistics ([https://e-catalogue.jhu.edu/engineering/applied-mathematics-statistics/](https://e-catalogue.jhu.edu/engineering/applied-mathematics-statistics/))

Substitutions for required courses can be made at the advisor's discretion.

Any five courses from the following list, or a substitution as approved by the student's track advisor. As course offerings vary over time, an updated list of acceptable courses will be maintained on the MSEM program website.
**Economics** (with calculus)— This requirement may be waived if the student has already had an intermediate microeconomics course accepted by their advisor.

**Mathematics of Decision Making**— acceptable courses include EN.570.495 and EN.570.497 Risk and Decision Analysis.


Substitutions for required courses can be made at the advisor's discretion.

**Elective Courses**

Any of the courses listed in the Mandatory list (see Part A above)

<table>
<thead>
<tr>
<th>Code</th>
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<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EN.570.496</td>
<td>Urban and Environmental Systems</td>
<td>3</td>
</tr>
<tr>
<td>EN.570.618</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

Other courses in environmental economics, systems, or policy, as approved by the advisor.

**ADDITIONAL NOTES**

- All courses must be approved by the student's advisor.
- All courses must be at the graduate level.
- Students with a background in quantitatively rigorous economics sufficient for the economics requirement to be waived must still take five (5) courses in this track.
- No more than one course in environmental engineering may be used to fulfill the track and only with careful consultation with the student's advisor. Candidate courses in environmental engineering include:
  - EN.570.446 Biological Process of Wastewater Treatment, EN.570.490 Solid Waste Engineering and Management, EN.570.491 Hazardous Waste Engineering and Management, EN.570.647 Hydrologic Transport in the Environment, EN.570.657 Air Pollution, etc.

**Systems Engineering**

(Sponsored by the Department of Systems Engineering [https://ep.jhu.edu/programs-and-courses/programs/systems-engineering/])

Required Courses:

- Two courses with course numbers from EN.560.640-EN.560.659 or EN.560.740-EN.560.759, or choose one from both
- Substitutions for courses can be made at the advisor’s discretion.

**Elective Courses**

Three courses from any combination of the following:

<table>
<thead>
<tr>
<th>Code</th>
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</tr>
</thead>
<tbody>
<tr>
<td>EN.560.6xx or above, or EN.565.4xx or above (excluding seminar)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EN.645.6xx or above (EP Systems Engineering)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EN.570.495</td>
<td></td>
<td>3.0</td>
</tr>
<tr>
<td>EN.553.761</td>
<td>Nonlinear Optimization I</td>
<td>3.0</td>
</tr>
<tr>
<td>EN.570.497</td>
<td>Risk and Decision Analysis</td>
<td>3.0</td>
</tr>
<tr>
<td>EN.553.400</td>
<td>Mathematical Modeling and Consulting</td>
<td>4.0</td>
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<td>EN.570.607</td>
<td>Energy Policy and Planning Models</td>
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</tr>
<tr>
<td>EN.663.653</td>
<td>Innovation and Design I</td>
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</tr>
<tr>
<td>EN.663.657</td>
<td>Innovation and Design II</td>
<td>3.0</td>
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</table>

- No more than one C may be used toward the degree in this track.

**SPACE SYSTEMS ENGINEERING, ENGINEERING FOR PROFESSIONALS PROGRAM**

(Sponsored by the Engineering for Professionals Program)

Required Courses:

- 675.600 Systems Engineering for Space
- 675.601 Fundamentals of Engineering Spaces Systems I

**Elective Courses**

Three courses from any combination of 675.xxx

- Substitutions for courses can be made at the advisor’s discretion.

For current faculty and contact information go to [http://eng.jhu.edu/wse/cle/page/our_people](http://eng.jhu.edu/wse/cle/page/our_people)