In our innovative capstone course, you will take EPOM 400, an integral core course in Engineering Leadership and Interpersonal Skills. This course is designed to provide you with the knowledge and skills necessary to lead effectively in a variety of engineering contexts.

**Spotlight on EPOM 400:**

- **M Master's Programs That Launch You into a Leadership Role:**
  - Case Western Reserve offers four fully online master's programs: Online Master of Science (MS) in Systems and Control Engineering, Online Master of Science (MS) in Mechanical Engineering, Online Master of Science (MS) in Biomedical Engineering, and Online Master of Engineering.
  - Explore the Online Master of Engineering programs at Case Western Reserve by the Numbers.

**Case Western Reserve by the Numbers:1**

- **$334.2 million** in sponsored research funding (2017-2018)
- **259 research awards** and **$47.7 million** in research, training and grant revenue
- **350 inventions, patents, deals**
- **16 Nobel Laureates**
- **160,000** federal R&D expenditures
- **270+ Top 20 Private Universities**

**Join the Case School of Engineering**

Case Western Reserve is a premier private research institution, consistently ranked one of the top universities in the nation in academic excellence. With a well-deserved reputation for innovation and leadership, Case Western Reserve University is your home for excellence.

**Welcome to Case Western Reserve University**

Join our community of innovative thinkers and leaders, where you will:

- **Maximize the Market Penetration of Your Design.**
  - You will work on a major engineering project, from design concept to final manufacture. The capstone challenges of engineering and research, from concept to reality.

- **Earn Your Engineering Master's Degree from the Convenience of Your Own Home.**
  - The online Master of Engineering can be completed in as few as 18 months if you take two courses per term. The curriculum offers a wide selection of technical electives in engineering innovation, management, systems and control engineering, biomedical engineering, and leadership concentrations.

- **Develop Your Leadership Skills.**
  - The program offers a strong foundation in technical and business knowledge, and leadership skills. Our faculty are experts in engineering innovation, management, systems and control engineering, biomedical engineering, and leadership. We are excited to bring this degree to practicing engineers to advance their careers.

- **About CWRU and the Case School of Engineering.**

  - The program is designed to launch leaders into leadership roles. It consists of the following:
    - **4 technical concentration courses**
    - **5 core courses**
    - **6 electives**
    - **30 credits total**

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Explore the Online MS in Systems and Control Engineering

At Case Western Reserve, we produce great team leaders. In particular, we have focused on teaching analysis, modeling complex systems and signals, control engineering, engineering management and problem-solving. Engineering management involves the application of managerial principles to the technical challenges of engineering. Our faculty brings this expertise and experience to the teaching of the courses in our online program.

Our online program is designed to provide students with technical courses varying depending on concentration.

Curriculum

<table>
<thead>
<tr>
<th>Program</th>
<th>Credit Hours</th>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>MS in Systems and Control Engineering</td>
<td>30</td>
<td>5 core courses, 5 technical electives, 2 translational courses, 2 biomedical engineering core courses, 2 engineering core courses</td>
</tr>
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<td>8 core courses, 2 technical electives</td>
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<td>MS in Biomedical Engineering</td>
<td>30</td>
<td>Instrumentation and analysis fundamentals, physiology, imaging, neural engineering, biomaterials, health technology, biodesign, design of fluid power machinery, dynamics, microscale technologies, materials properties, statistical analysis, process deployment, engineering economics, leadership skills; statistics, organizational behavior, personal and professional goals</td>
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The 30-credit online MS in Systems and Control Engineering can be completed in as few as 18 months if you take two courses per term. It consists of the following:

- **2 electives**
- **8 core courses**
- **2 technical electives**
- **2 translational courses**
- **2 biomedical engineering core courses**
- **2 engineering core courses**

Find the Program That Fits Your Personal and Professional Goals

Online MS in Mechanical Engineering

The median annual wage in 2018 was $87,370. Biomedical engineering is No. 6 on Monster’s list of best engineering job and the U.S. News & World Report ranked mechanical engineering No. 3 best engineering job,8 and the median salary is more than $103,840 per year10 and systems engineering jobs pay an estimated average salary of $129,000 per year12. Over the mid-career salary of $129,000 per year.7

Explore the Online MS in Biomedical Engineering

View Courses

View Faculty

Find the Program That Fits Your Personal and Professional Goals

Online MS in Systems and Control Engineering

View Top-Paying Engineering Jobs

The Value of a Case Western Reserve Degree*

Real-world experience to the teaching of the courses in our online program.90%

We look forward to welcoming you to our community.

*Based on a limited sample of self-reported data from alumni from Case Western Reserve University Department of Engineering from graduating cohorts between 2016-2018.

Note:

- **2 technical electives**
- **2 translational courses**
- **2 biomedical engineering core courses**
- **2 engineering core courses**

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Online MS in Systems and Control Engineering

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The Value of a Case Western Reserve Degree*
The Benefits of Online Learning at CWRU

- Earn your degree from home or on campus.
- Enjoy the flexibility of part-time or full-time study.
- Take required courses in your home state.
- Use career services to get your job.
- Personalize your academic experience.
- Benefit from the nation’s top engineering school.
- Join our online alumni network.
- 100% online programs.
- Access to the same classes as on-campus.

Click Here to Learn More

What to Expect from the Online Experience

- Take advantage of our award winning technology.
- Take courses on your own schedule.
- Learn from the same faculty as our on-campus programs.
- Tailor the program to your busy schedule.
- Collaborate with peers from all over the country.
- Gain access to the Case Western Reserve library.
- Take the same combination of highly technical and leadership-focused courses.
- Track your progress with an online gradebook that informs you in real time.
- Access our LMS on desktop, tablet, or mobile devices.
- Take courses via recorded audio and video.

Ready to take the next step?

Enrollment Requirements

- Bachelor’s degree (Bachelor of Science in engineering or equivalent) or at least 2 years of professional experience in the engineering field.
- A grade point average (GPA) of 3.0 or higher on a 4.0 scale.
- Two letters of recommendation from professional and academic sources.
- A resume/CV.
- TOEFL, IELTS or PTE for international students.
- MS programs only: In response to concerns about the COVID-19 virus, MS applicants for summer and fall 2020 will not be required to submit GRE scores.

Scholarship Details

- All qualified new applicants to our online engineering programs are eligible for a scholarship of $10,000.
- MS applicants for summer and fall 2020 may be eligible for conditional admittance, please speak with your advisor to learn more.

Financial Aid

- Case Western Reserve is proud to offer the following graduate student funding opportunities: Graduate assistantships, teaching assistantships, and fellowships.
- Graduate students may also be eligible for student loans, military benefits, or tuition assistance through your employer. In fact, one in two of our graduate students report receiving employer funding for their online graduate degree.
- In addition to the scholarships offered by CWRU, you may be eligible for Federal Student Aid (FAFSA) to determine your aid eligibility.
- Federal aid is available for graduate students who meet the eligibility requirements.

First Step: Submit the FAFSA

- Visit the Federal Student Aid website to learn more about how to apply.

Case Simmons Reserve is proud to offer the following graduate student funding opportunities: Graduate assistantships, teaching assistantships, and fellowships.

- Graduate assistantships
- Teaching assistantships
- Fellowships

Visit our website for full scholarship details and up-to-date tuition and fees.

Admissions Requirements

- Bachelor’s degree (Bachelor of Science in engineering or equivalent) or at least 2 years of professional experience in the engineering field.
- A grade point average (GPA) of 3.0 or higher on a 4.0 scale.
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