School of Engineering, Computing and Construction Management (SECCM) Labs
With the new state-of-the-art SECCM Labs building (opening in spring 2020), our students will be applying classroom theory and gaining hands-on experience with equipment used in today's industry.

Engineering students will have access to:

- Collaborative workspaces
- Project rooms
- Design lab
- The Applied Engineering and Fabrication lab
- The Fluid Mechanics lab
- The Electrical Engineering lab
- The Mechanics of Materials lab

School of Engineering, Computing and Construction Management
» you.rwu.edu/SECCM

ENGINEERING
Behind every great building, electronic device, machine, or robot is an engineer who made it possible. At RWU, engineering majors start designing and building from their first semester while also developing a broad base of knowledge in engineering principles. Starting in your third year, you will begin to specialize in a field of engineering and take your projects to the next level. Graduates leave RWU with the ability to work across teams to design and build the structures and machines we use every single day.

STUDENT EXPERIENCE
Learn and Do More at RWU
With a focus on experiential learning at RWU, engineering majors can:

- Build and program a robot that can think and act on its own.
- Partner with education students to teach fourth graders to build small-scale wind turbines through project-based courses.
- Study abroad in Ireland, Scotland or Australia, or travel to countries like the Dominican Republic and Ecuador with Engineers Without Borders to solve real-world problems and help communities in need.

You will also have the opportunity to network with industry professionals, attend national and local conferences and receive technical training through workshops via the following societies:

- Society of Women Engineers (SWE)
- American Society of Civil Engineers (ASCE)
- American Society of Mechanical Engineers (ASME)
- Institute of Electrical and Electronics Engineers (IEEE)

CAREER OUTLOOK
RWU engineering alumni are working as:

- Environmental Engineers
- Manufacturing Engineers
- Design Engineers
- Electronics Engineers
- Applications Engineers
- Site Engineers

ALUMNI SPOTLIGHT
While the classes are great, it was the Society of Women Engineers that shaped me and my passion for engineering. It's what helped me see myself as an engineer.

Sarah Agnalt '18
Electrical Engineer at General Dynamic Mission Systems

Did you spend countless hours playing and creating with Legos as a child?
Did you find yourself tinkering with machines, wanting to know how they work or how you might improve them?
Are you passionate about coming up with creative solutions that will benefit your community?

APPLICATION DEADLINES
Early Action, November 15
Regular Decision, February 1
Apply online using the Common Application at you.rwu.edu/apply or www.commonapp.org

www.rwu.edu
Internships
With help from RWU’s Career Center and their faculty advisor, many of our engineering students find paid internships within their specialization field during the summer after their sophomore and junior years. These internships often lead to full-time job offers.

Faculty
Our faculty are invested in your success. As experts in the field, they teach you the skills, practices and techniques needed to succeed in the industry. Each engineering student is assigned a faculty advisor to mentor you throughout your four years. Your faculty advisor will get to know you academically, personally and professionally. They’re always available to help you work through challenging assignments, guide you through research or design projects and help you to find internships and jobs.

Research
Through research projects, engineering students at RWU have the opportunity to push the boundaries of engineering knowledge and practices. Students have worked collaboratively with faculty developing new techniques for evaluating the strength of bridges, creating new models for managing water supplies, and improving the way that lasers function.

CURRICULUM
We offer a unique course of study that blends liberal arts with the technical foundations of math, science and engineering; we’re educating the engineers of tomorrow. Our students develop the knowledge, creativity and flexibility to analyze, design and develop solutions that solve practical challenges and benefit the community around them.

During the first two years of study, you will learn fundamental engineering skills such as working within teams and using proper equipment and computer software. Every student takes calculus, physics, mechanics of materials, thermodynamics and circuit theory before choosing a specialization. With the strong emphasis on math courses, all engineering students graduate with a minor in Mathematics.

You will complete a year-long senior design project that provides a solution to a real-world engineering problem. These projects are presented to outside clients, and at competitions and conferences such as the Northeast American Society of Engineering Education or Eastern Colleges Science Conference. Past projects have included:

- Stormwater retention pond design
- Pedestrian bridge design
- Mars rover conceptual design
- Wave counter device
- Wind turbine powered boat

To prepare students for success after graduation, our program covers the necessary topics found on the Fundamentals of Engineering (FE) exam and provides courses and exam prep online during your senior year.

SPECIALIZATIONS
Beginning in your third year, you will have the flexibility to tailor your education to your own engineering interests by selecting a specialization. Students may choose from civil, computer, electrical, environmental, or mechanical, or can consult their faculty advisor to create a custom specialization.

Civil Specialization
From the roads, highways and bridges we drive on to the clean water we drink and the buildings we see in the skyline, civil engineering is found everywhere. Civil engineers work to design, build and maintain the infrastructure that makes modern life possible.

Computer Specialization
The rapid advances in today’s computer technology are largely the result of the research, development and design efforts of computer engineers. Computer engineers work with everything from computer hardware like computer chips, circuit boards, microprocessors, and routers to other computer-related equipment such as keyboards and printers.

Electrical Specialization
In a world where technology is constantly growing and evolving, the work of electrical engineers is becoming more essential. Lighting and wiring in building, electric motors for automobiles, machinery controls and navigation systems are just some examples of the equipment electric engineers develop.

Environmental Specialization
Passionate about public health, climate change and sustainability, environmental engineers develop solutions to local, national and global environmental issues. Environmental engineers work on solutions to water and air pollution, design water supply and wastewater treatment systems, and study the effects that acid rain, global warming, and automobile emission have on our everyday lives.

Mechanical Specialization
The work of mechanical engineers can be found all around us. From power-producing machines like wind turbines, hydroelectric generators, and internal combustion engines to power-using machines like cars, planes, robots, and medical devices, mechanical engineers are constantly designing and developing life-changing mechanisms.

Custom Specialization
Students interested in more than one type of engineering, or those who want to prepare for an emerging field not defined by a traditional specialization, can work with their faculty advisor to design a custom specialization perfectly tailored to their interests.