

## ARIZONA STATE UNIVERSITY

### AAS Engineering Technology

- Program Details  
<https://aztransmac2.asu.edu/cgi-bin/WebObjects/acres.woa/wa/freeForm3?id=43241>
- Program Requirements for AAS Engineering Technology  
<https://aztransmac2.asu.edu/cgi-bin/WebObjects/acres.woa/wa/freeForm3?id=82029>

### Aerospace Engineering

Aerospace engineers design aircraft and propulsion systems, and study the aerodynamic performance of aircraft. Concentrations available in Aeronautics, Astronautics, and Autonomous Vehicle Systems.

- Career Information  
<http://www.bls.gov/ooh/architecture-and-engineering/aerospace-engineers.htm>
- Advising Guide  
[http://www.cgc.maricopa.edu/Academics/sciences/engineering/Documents/Advising%20Guide%202017-2018/aerospace\\_guide\\_1718.pdf](http://www.cgc.maricopa.edu/Academics/sciences/engineering/Documents/Advising%20Guide%202017-2018/aerospace_guide_1718.pdf)
- MAPP (Maricopa to ASU Pathways Program)
  - ASU Aeronautics Concentration  
<https://webapp4.asu.edu/transferpathwaybuilder/public?year=2016&extOrgId=MARICOPA&acadPlan=ESAEROBSE>
  - ASU Astronautics Concentration  
<https://webapp4.asu.edu/transferpathwaybuilder/public?year=2016&extOrgId=MARICOPA&acadPlan=ESAEASBSE>
  - ASU Autonomous Vehicle System  
<https://webapp4.asu.edu/transferpathwaybuilder/public?year=2016&extOrgId=MARICOPA&acadPlan=ESAEAVSBSE>
- Major Map and Degree Information
  - ASU Aeronautics Concentration  
<https://webapp4.asu.edu/programs/t5/majorinfo/ASU00/ESAEROBSE/undergrad/false>
  - ASU Astronautics Concentration  
<https://webapp4.asu.edu/programs/t5/majorinfo/ASU00/ESAEASBSE/undergrad/false?init=false&nopassive=true>
  - ASU Autonomous Vehicle System  
<https://webapp4.asu.edu/programs/t5/majorinfo/ASU00/ESAEAVSBSE/undergrad/false>

### Biomedical Engineering

Biomedical engineers design and create equipment and devices used in healthcare.

- Career Information  
<http://www.bls.gov/ooh/architecture-and-engineering/biomedical-engineers.htm>
- Advising Guide  
[http://www.cgc.maricopa.edu/Academics/sciences/engineering/Documents/Advising%20Guide%202017-2018/biomedical\\_guide\\_1718.pdf](http://www.cgc.maricopa.edu/Academics/sciences/engineering/Documents/Advising%20Guide%202017-2018/biomedical_guide_1718.pdf)
- MAPP (Maricopa to ASU Pathways Program)
  - ASU Biomedical Engineering  
<https://webapp4.asu.edu/transferpathwaybuilder/public?year=2016&extOrgId=MARICOPA&acadPlan=ESBMEBSE>

- Major Map and Degree Information
  - ASU Biomedical Engineering  
<https://webapp4.asu.edu/programs/t5/majorinfo/ASU00/ESBMEBSE/undergrad/false?init=false&nopassive=true>

### **Chemical Engineering**

Chemical Engineers apply the principals of chemistry, biology, physics and mathematics to solve problems involving the production of chemicals, fuel, drugs, food, and many other products.

- Career Information
  - Chemical Engineering  
<http://www.bls.gov/ooh/architecture-and-engineering/chemical-engineers.htm>
- MAPP (Maricopa to ASU Pathways Program)
  - ASU Chemical Engineering  
<https://webapp4.asu.edu/transferpathwaybuilder/public?init=false&year=2016&extOrgId=MARICOPA&acadPlan=ESCHEBSE&nopassive=true>
- Major Map and Degree Information
  - ASU Chemical Engineering  
<https://webapp4.asu.edu/programs/t5/majorinfo/ASU00/ESCHEBSE/undergrad/false>

### **Civil Engineering**

Civil engineers provide cost estimates for materials and labor to determine a project's economic feasibility. Concentrations available in Environmental Engineering and Sustainable Engineering.

- Career Information
  - Civil Engineering  
<http://www.bls.gov/ooh/architecture-and-engineering/civil-engineers.htm>
- MAPP (Maricopa to ASU Pathways Program)
  - ASU General Civil Engineering  
<https://webapp4.asu.edu/transferpathwaybuilder/public?year=2016&extOrgId=MARICOPA&acadPlan=ESCEEBSE>
  - ASU Environmental Engineering  
<https://webapp4.asu.edu/transferpathwaybuilder/public?year=2016&extOrgId=MARICOPA&acadPlan=ESCEEBSE>
  - ASU Sustainable Engineering  
<https://webapp4.asu.edu/transferpathwaybuilder/public?year=2016&extOrgId=MARICOPA&acadPlan=ESCEESUBSE>
- Major Map and Degree Information
  - ASU General Civil Engineering  
<https://webapp4.asu.edu/programs/t5/majorinfo/ASU00/ESCEEBSE/undergrad/false>
  - ASU Environmental Engineering  
<https://webapp4.asu.edu/programs/t5/majorinfo/ASU00/ESCEEBSE/undergrad/false>
  - ASU Sustainable Engineering  
<https://webapp4.asu.edu/programs/t5/majorinfo/ASU00/ESCEESUBSE/undergrad/false>

### **Computer Systems Engineering**

Computer and information research scientists study and solve complex problems in computing. Concentrations available in Information Assurance and Software Engineering.

- Career Information
  - Computer Systems Engineering  
[https://en.wikipedia.org/wiki/Computer\\_engineering](https://en.wikipedia.org/wiki/Computer_engineering)
- MAPP (Maricopa to ASU Pathways Program)
  - ASU Computer Systems Engineering (Information Assurance)  
<https://webapp4.asu.edu/transferpathwaybuilder/public?year=2016&extOrgId=MARICOPA&acadPlan=ESCSEIBS>
- Major Map and Degree Information
  - ASU Computer Systems Engineering (Information Assurance)  
<https://webapp4.asu.edu/programs/t5/majorinfo/ASU00/ESCSEIBS/undergrad/false>

### **Construction Engineering**

Construction engineers work at the interface of civil engineering design and construction management typically in the development of infrastructures.

- Career Information
  - [https://en.wikipedia.org/wiki/Construction\\_engineering](https://en.wikipedia.org/wiki/Construction_engineering)
- MAPP (Maricopa to ASU Pathways Program)
  - <https://webapp4.asu.edu/transferpathwaybuilder/public?year=2016&extOrgId=MARICOPA&acadPlan=ESCONBSE>
- Major Map and Degree Information
  - <https://webapp4.asu.edu/programs/t5/majorinfo/ASU00/ESCONBSE/undergrad/false>

### **Electrical Engineering**

Electrical engineers design, develop, test, and supervise the manufacturing of electrical equipment, such as electric motors, radar and navigation systems, communications systems, and power generation equipment. Concentrations available in Electric Power and Energy Systems.

- Career Information
  - Electrical Engineering  
<http://www.bls.gov/ooh/architecture-and-engineering/electrical-and-electronics-engineers.htm>
- MAPP (Maricopa to ASU Pathways Program)
  - ASU Electrical Engineering  
<https://webapp4.asu.edu/transferpathwaybuilder/public?year=2016&extOrgId=MARICOPA&acadPlan=ESEEEBSE>
- Major Map and Degree Information
  - ASU Electrical Engineering  
<https://webapp4.asu.edu/programs/t5/majorinfo/ASU00/ESEEEBSE/undergrad/false>

## **Industrial Engineering**

Industrial engineers review production schedules, engineering specifications, and process flows to understand activities in manufacturing and services.

- Career Information
  - Industrial Engineering  
<http://www.bls.gov/ooh/architecture-and-engineering/industrial-engineers.htm>
- MAPP (Maricopa to ASU Pathways Program)
  - ASU Industrial Engineering  
<https://webapp4.asu.edu/transferpathwaybuilder/public?year=2016&extOrgId=MARICOPA&acadPlan=ESIEEBSE>
- Major Map and Degree Information
  - ASU Industrial Engineering  
<https://webapp4.asu.edu/programs/t5/majorinfo/ASU00/ESIEEBSE/undergrad/false>

## **Materials Science Engineering**

Materials engineers develop, process and test materials used to create a range of products.

- Career Information
  - Materials Science  
<http://www.bls.gov/ooh/architecture-and-engineering/materials-engineers.htm>
- MAPP (Maricopa to ASU Pathways Program)
  - ASU Materials Science  
<https://webapp4.asu.edu/transferpathwaybuilder/public?year=2016&extOrgId=MARICOPA&acadPlan=ESMSEBSE>
- Major Map and Degree Information
  - ASU Materials Science  
<https://webapp4.asu.edu/programs/t5/majorinfo/ASU00/ESMSEBSE/undergrad/false>

## **Mechanical Engineering**

Many mechanical engineers work in industries that manufacture machinery or automotive parts. Concentrations available in Computational Mechanics and Energy and the Environment.

- Career Information
  - Mechanical Engineering  
<http://www.bls.gov/ooh/architecture-and-engineering/mechanical-engineers.htm>
- MAPP (Maricopa to ASU Pathways Program)
  - ASU Mechanical Engineering  
<https://webapp4.asu.edu/transferpathwaybuilder/public?year=2016&extOrgId=MARICOPA&acadPlan=ESMAEMBSE>
  - ASU Mechanical Engineering (Computational Mechanics)  
<https://webapp4.asu.edu/transferpathwaybuilder/public?year=2016&extOrgId=MARICOPA&acadPlan=ESMAECBSE>
- Major Map and Degree Information
  - ASU Mechanical Engineering  
<https://webapp4.asu.edu/programs/t5/majorinfo/ASU00/ESMAEMBSE/undergrad/false>
  - ASU Mechanical Engineering (Computational Mechanics)  
<https://webapp4.asu.edu/programs/t5/majorinfo/ASU00/ESMAECBSE/undergrad/false>

## **Undecided Engineering**

Engineers collaborate on transdisciplinary teams to design, manufacture and deliver innovative technological products and services.

- Career Information
  - Engineering  
<http://www.bls.gov/ooh/architecture-and-engineering/home.htm>
- MAPP (Maricopa to ASU Pathways Program)
  - ASU Engineering  
<https://webapp4.asu.edu/transferpathwaybuilder/public?year=2016&extOrgId=MARICOPA&acadPlan=TSEGRBSE>
- Major Map and Degree Information
  - ASU Engineering  
<https://webapp4.asu.edu/programs/t5/programs/Keyword/engineering/undergrad/false>

## UNIVERSITY OF ARIZONA

### Aerospace Engineering

- <http://engineering.arizona.edu/majors/aerospace>

### Architectural Engineering

- <http://engineering.arizona.edu/majors/architectural>

### Biomedical Engineering

- <http://engineering.arizona.edu/majors/biomedical>

### Biosystems Engineering

- <http://engineering.arizona.edu/majors/biosystems>

### Chemical Engineering

- <http://engineering.arizona.edu/majors/chemical>

### Civil Engineering

- <http://engineering.arizona.edu/majors/civil>

### Electrical & Computer Engineering

- <http://engineering.arizona.edu/majors/electricalcomputer>

### Environmental Engineering

- <http://engineering.arizona.edu/majors/environmental>

### Industrial Engineering

- <http://engineering.arizona.edu/majors/industrial>

### Materials Science & Engineering

- <http://engineering.arizona.edu/majors/materialscience>

### Mechanical Engineering

- <http://engineering.arizona.edu/majors/mechanical>

### Mining Engineering

- <http://engineering.arizona.edu/majors/mining>

### Optical Sciences & Engineering

- <http://engineering.arizona.edu/majors/opticalscience>

### Systems Engineering

- <http://engineering.arizona.edu/majors/systemsengineering>

## NORTHERN ARIZONA UNIVERSITY

### Applied Computer Science

- Applied Computer Science  
<http://catalog.nau.edu/Catalog/details?plan=ACSBSX&catalogYear=1718>

### Civil Engineering

- Civil Engineering  
<http://catalog.nau.edu/Catalog/details?plan=CIEGRBSEX&catalogYear=1718>

### Computer Science

- Computer Science  
<http://catalog.nau.edu/Catalog/details?plan=CSBSCSX&catalogYear=1718>

### Electrical Engineering

- Electrical Engineering  
<http://catalog.nau.edu/Catalog/details?plan=EEBSEX&catalogYear=1718>
- Electrical Engineering, Computer Engineering Emphasis  
<http://catalog.nau.edu/Catalog/details?plan=EEBSEX&catalogYear=1718>
- Electrical Engineering, Electrical Engineering Emphasis  
<http://catalog.nau.edu/Catalog/details?plan=EEBSEX&catalogYear=1718>

### Environmental Engineering

- Environmental Engineering  
<http://catalog.nau.edu/Catalog/details?plan=ENEGRBSEX&catalogYear=1718>

### Mechanical Engineering

- Mechanical Engineering  
<http://catalog.nau.edu/Catalog/details?plan=MEEGRBSEX&catalogYear=1718>

## **GRAND CANYON UNIVERSITY**

### **Program Information**

<https://www.gcu.edu/degree-programs/bachelor-science-electrical-engineering>

<https://www.gcu.edu/degree-programs/bachelor-science-electrical-engineering-technology>

<https://www.gcu.edu/degree-programs/bachelor-science-engineering>

<https://www.gcu.edu/degree-programs/bachelor-science-engineering-robotics>

<https://www.gcu.edu/degree-programs/bachelor-science-mechanical-engineering>

<https://www.gcu.edu/degree-programs/bachelor-science-mechanical-engineering-technology>

<https://www.gcu.edu/degree-programs/bachelor-science-biomedical-engineering>

### Pre-Engineering Pathways

#### **Biomedical Engineering:**

[https://www.gcu.edu/Documents/Maricopa\\_GCU%20Pre-Engineering%20Pathway.BS%20Biomedical%20Engineering.pdf](https://www.gcu.edu/Documents/Maricopa_GCU%20Pre-Engineering%20Pathway.BS%20Biomedical%20Engineering.pdf)

#### **Electrical Engineering:**

[https://www.gcu.edu/Documents/Maricopa\\_GCU%20Pre-Engineering%20Pathway.BS%20Electrical%20Engineering.pdf](https://www.gcu.edu/Documents/Maricopa_GCU%20Pre-Engineering%20Pathway.BS%20Electrical%20Engineering.pdf)

#### **Engineering:**

[https://www.gcu.edu/Documents/Maricopa\\_GCU%20Pre-Engineering%20Pathway.BS%20Engineering.pdf](https://www.gcu.edu/Documents/Maricopa_GCU%20Pre-Engineering%20Pathway.BS%20Engineering.pdf)

#### **Engineering with an emphasis in Robotics:**

[https://www.gcu.edu/Documents/Maricopa\\_GCU%20Pre-Engineering%20Pathway.BS%20Engineering\\_Robotics.pdf](https://www.gcu.edu/Documents/Maricopa_GCU%20Pre-Engineering%20Pathway.BS%20Engineering_Robotics.pdf)

#### **Mechanical Engineering:**

[https://www.gcu.edu/Documents/Maricopa\\_GCU%20Pre-Engineering%20Pathway.BS%20Mechanical%20Engineering.pdf](https://www.gcu.edu/Documents/Maricopa_GCU%20Pre-Engineering%20Pathway.BS%20Mechanical%20Engineering.pdf)



## **EMRY RIDDLE UNIVERSITY**

### Aerospace Engineering

- Aerospace Engineering  
<https://erau.edu/degrees/bachelor/aerospace-engineering/>

### Civil Engineering

- Civil Engineering  
<https://erau.edu/degrees/bachelor/civil-engineering/>

### Computer Engineering

- Computer Engineering  
<https://erau.edu/degrees/bachelor/computer-engineering/>

### Electrical Engineering

- Electrical Engineering  
<https://erau.edu/degrees/bachelor/electrical-engineering/>

### Engineering

- Engineering  
<https://erau.edu/degrees/bachelor/engineering/>

### Engineering Physics

- Engineering Physics  
<https://erau.edu/degrees/bachelor/engineering-physics/>

### Engineering Technology

- Engineering Technology  
<https://erau.edu/degrees/bachelor/engineering-technology/>

### Mechanical Engineering

- Mechanical Engineering  
<https://erau.edu/degrees/bachelor/mechanical-engineering/>

### Software Engineering

- Software Engineering  
<https://erau.edu/degrees/bachelor/software-engineering/>