



Earning Pre-Engineering & Robotics Certifications

Students must pass Fundamentals of Engineering plus a minimum of two of the eight engineering modules to receive the REC Foundation Pre-Engineering Certification. To earn the Robotics Certification, students must pass the Fundamentals of Engineering and three specific modules; Computer Science/Programming, Electrical, and Mechanical. Because the Robotics Certification exceeds two modules, students who earn the Robotics Certification also earn the Pre-Engineering Certification. There is no limit to how many engineering modules a student may take beyond the ones required.

The minimum passing score for the Fundamentals of Engineering and each of the eight modules is 70%. The minimum required to earn a Pre-Engineering Certification is scoring 70% or higher on the Fundamentals of Engineering and any two Modules. The minimum required to earn the Pre-Engineering & Robotics Certification is scoring 70% or higher on the Fundamentals of Engineering and the Mechanical, Electrical and Computer Science/Programming Modules.

A student that fails an exam may retake the exam after waiting 20 calendar days; and may attempt an exam up to three times within one academic year. Additional state, local and school restrictions may apply. Test administrators must sign and adhere to the REC Foundation Proctor Agreement as well as local and state laws and regulations.

All students passing the certification will receive a certificate documenting their achievement. For more information please call (903) 401-8010 or email certifications@roboticseducation.org.

Certification Scoring Examples

Pre-Engineering Certification:

- Take and pass Fundamentals of Engineering with a score of 70% or higher
- Take and pass any two modules with a score of 70% or higher

Pre-Engineering & Robotics Certifications:

- Take and pass Fundamentals of Engineering with a score of 70% or higher
- Take and pass Mechanical Engineering Module with a score of 70% or higher
- Take and pass Electrical Engineering Module with a score of 70% or higher
- Take and pass Computer Science/Programming Module with a score of 70% or higher

Pre-Engineering & Robotics Certifications Multi Year Option:

Earning both certifications can be accomplished over multiple years for multi-year programs. Some common examples are listed below earning the Pre-Engineering Cert year 1 and adding Robotics Cert year 2.

Year 1: Earn Pre-Engineering Certification

| Option A | Option B | Option C |
|------------------------------------|----------------------------|------------------------|
| Fundamentals of Engineering | | |
| Mechanical Engineering | Mechanical Engineering | Mechanical Engineering |
| Engineering Technology * | Manufacturing Technology * | Electrical Engineering |

** Any module can be chosen as the second module to earn the certification*

Year 2: Earn Robotics Certification

| Option A | Option B | Option C |
|------------------------------|------------------------------|------------------------------|
| Electrical Engineering | Electrical Engineering | |
| Computer Science/Programming | Computer Science/Programming | Computer Science/Programming |