

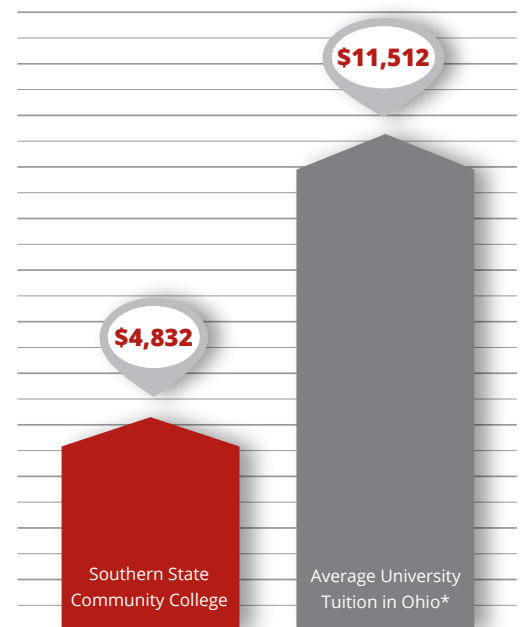
Engineering Pathway

Degree and Certificate Programs



An engineering degree can provide access to almost any **career you might be interested in**. From designing and analyzing data to operating different kinds of equipment, engineering is definitely a **growing field** in today's technology-centered world. With a background in engineering, you can really **stand out in the job market**.
Ready to get started on your Engineering pathway?

TUITION COMPARISON



* undergraduate annual tuition for university main campuses
Source: Fall 2020 Survey of Student Charges
Ohio Department of Higher Education



SOUTHERN STATE
ENGINEERING

Southern State Community College does not discriminate based on race, color, national origin, sex, disability, or age in its programs and activities. The following people have been designated to handle inquiries regarding the non-discrimination policies: James Bland, Vice President of Student Affairs & Enrollment Management | Title IX Lead Coordinator 100 Hobart Drive, Hillsboro, OH 45133 | jbland@sscc.edu | 800.628.7722, Ext. 2510 or Mindy Markey-Grabill, Executive Director of Human Resources | Title IX Coordinator 100 Hobart Drive, Hillsboro, OH 45133 | mmarkey@sscc.edu | 800.628.7722, Ext. 2550.

Engineering Pathway Degree and Certificate Programs

MECHANICAL DESIGN TECHNOLOGY- 460C

Associate of Applied Science Degree

Fall Semester Year 1	ENDS 1140 Introduction to Engineering Graphics and AutoCAD ENDS 1100 Introduction to Engineering CSCI 2218 Excel ENGL 1101 English Composition I EENG 1105 DC Circuits & Devices MATH 1120 Technical Mathematics
Spring Semester Year 1	ENDS 2230 Advanced Concepts in 2D AutoCAD ENDS 2233 Computer Aided Manufacturing COMM 1115 Fundamentals of Effective Speech PHYS 2201 General Physics I (Algebra Based) PHYS 2211 General Physics Lab I ENGL 2205 Technical Report Writing
Fall Semester Year 2	ENDS 2201 Engineering Mechanics: Statics ENDS 2205 Hydraulics & Pneumatics ENDS 1143 Introduction to Project Management and Product Design ENDS 2219 Tool Design & Manufacturing ENDS 2231 Introduction to 3D AutoCAD
Spring Semester Year 2	ENDS 2232 Introduction to SolidWorks ENDS 2203 Strength of Materials ENDS 2261 Manufacturing Materials & Processes ENDS 2299 Design Research Project ----- General Elective PHIL 1107 or SOCI 1170

ELECTRO-MECHANICAL ENGINEERING TECHNOLOGY - 470A

Associate of Applied Science Degree

Fall Semester Year 1	ENDS 1140 Introduction to Engineering Graphics and AutoCAD ENDS 1100 Introduction to Engineering ENGL 1101 English Composition I EENG 1105 DC Circuits & Devices MATH 1120 Technical Mathematics
Spring Semester Year 1	CSCI 2260 Microcontroller Programming ENDS 2232 Introduction to SolidWorks PHYS 2201 General Physics I (Algebra Based) PHYS 2211 General Physics Lab I EENG 2205 Digital Electronics I EENG 1115 AC Circuits & Devices
Fall Semester Year 2	ENDS 2201 Engineering Mechanics (Statics) ENDS 2205 Hydraulics & Pneumatics ENDS 1143 Introduction to Project Management and Product Design EENG 2215 Analog Circuits & Devices EENG 2285 Manufacturing Control Systems EENG 1185 Electrical Machinery
Spring Semester Year 2	ENDS 2203 Strength of Materials ENGL 2205 Technical Report Writing ENDS/EENG 2299 Research Project COMM 1115 Fundamentals of Effective Speech ----- General Elective (Humanities or Social Sciences)

Earn your **Bachelor's Degree in Engineering** at any of the following schools that SSCC is partnered with for seamless transfer:



FACULTY CONTACT

Jim Barnett,
Asst. Professor, Engineering
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jbarnett@sscc.edu

ENGINEERING: AVIATION MAINTENANCE - 470G

Associate of Applied Science Degree

Fall Semester Year 1	AVIT 1111 Aircraft Operations & Preservation AVIT 1112 Basic Aircraft Electricity AVIT 1113 Aircraft Materials, Processes & Fluid Lines MATH 1120 Technical Mathematics
Spring Semester Year 1	AVIT 1121 Aircraft Maintenance Publications & Regulations AVIT 2221 Aircraft Metallic Structures AVIT 2222 Aircraft Fuel Systems AVIT 2241 Aircraft Instrumentation, Navigation & Communication PHYS 2201 General Physics I (Algebra Based) PHYS 2211 General Physics Lab I
Summer Semester Year 1	AVIT 2231 Aircraft Non-Metallic Structures AVIT 2232 Airframe Electrical Systems AVIT 2233 Aircraft Landing Gear & Fluid Power ENGL 1101 English Composition I
Fall Semester Year 2	AVIT 2242 Aircraft Atmospheric & Protection Systems AVIT 2243 Aircraft Assembly & Rigging AVIT 2244 Airframe Inspection AVIT 2363 Aircraft Propellers & Cooling Systems PHIL 1107 Ethics ENDS 1140 Introduction to Engineering Graphics and AutoCAD
Spring Semester Year 2	AVIT 2351 Aircraft Reciprocating Engines I AVIT 2352 Aircraft Reciprocating Engines II AVIT 2353 Aircraft Fuel Metering ENDS 2232 Introduction to SolidWorks ENGL 2205 Technical Report Writing
Summer Semester Year 2	AVIT 2361 Aircraft Turbine Engines I AVIT 2362 Aircraft Turbine Engines II AVIT 2364 Aircraft Powerplant Inspections THEA 1121 Introduction to Theatre, SOCI 1170 Introduction to Sociology, or PSYC 1110 or Principles of Psychology