Semiconductor Manufacturing Technology

Program Options:
AAS – Semiconductor Manufacturing Technology

Semiconductor manufacturing consists of a series of complex processes by which miniaturized electrical devices or microchips are created for electronic equipment. Students in this program will receive instruction in related academic subjects, safety procedures, statistical process control techniques, and the operation of machinery and equipment for the fabrication and processing of semiconductors.

Collin’s Semiconductor Manufacturing Technology Program is a joint workforce education program with Richland College. The AAS degree program prepares students for employment as semiconductor equipment technicians.

Students planning to transfer to a college or university should check with the Collin academic advisor prior to beginning this program to verify course transferability.

AAS – Semiconductor Manufacturing Technology
60 credit hours

FIRST YEAR
First Semester
CETT 1303 DC Circuits
CETT 1325 Digital Fundamentals
ENGL 1301 Composition I
ENGR 1201 Introduction to Engineering
MATH 1314 College Algebra

Second Semester
CETT 1305 AC Circuits
DFTG 1372 SOLIDWORKS Essentials
MATH 1316 Plane Trigonometry
PHYS 1401 College Physics I
ELECTIVE *

Summer
GEN ED Select one Social / Behavioral Sciences General Education course
SPCH 1321 Business and Professional Communication
(See other Speech Options)

SECOND YEAR
First Semester
CETT 1329 Solid State Devices
GEN ED Select one Humanities / Fine Arts General Education course
SMFT 1343 Semiconductor Manufacturing Technology
ELECTIVE *

Second Semester
CETT 1357 Linear Integrated Circuits
CETT 2380 Cooperative Education - Computer Engineering Technology/Technician (Capstone)
ELECTIVE *
ELECTIVE *
ELECTIVE *

* Elective (12 credit hours): RBTC-2345, or any CETT, CPMT, EECT, ENGR, or SMFT course not listed above with consent of Program Director