

BE IN DEMAND IN ENGINEERING TECHNOLOGY

NOVA is the Place!

There's never been a more exciting time to be a tech student at Northern Virginia Community College (NOVA). Our **Engineering Technology A.A.S.** degree or **C.S.C.** prepares you for career as a technician, operator, and/or technologist in many tech fields. **Select your path today.**

The EngTech Program

Offers a solid foundation into engineering technology, while providing valuable insight to determining your area of focus. With courses like Electric Motor Control, Programmable Logic Controller Systems and Application of Fluid Mechanics, you'll gain the knowledge and exposure to place you into high demand fields.

Prepare for the Future

There is high demand for Data Center Technicians, Mechatronics Operators and other Engineering Tech fields. Degree course work provides an industry certification for OSHA 10. Through our industry partnerships, students have landed relevant internships and are able to work and continue their programs of study simultaneously.

A.A.S. Degree Courses (Associate of Applied Science)

1st Semester			Credits 15
ELE	150	A.C. and D.C. Circuit Fundamentals	3
ENG	115	Technical Writing	3
IND	123	Intro to Learn Manufacturing and Six Sigma	1
IND	137	Team Concepts in Problem Solving	3
MEC	140	Introduction to Mechatronics ¹	3
SAF	130	Industrial Safety - OSHA 10	1
SDV	100	College Success Skills - OR -	
SDV	101	Orientation to (a Specific Discipline)	1
2nd Semester			Credits 15
CAD	175	Schematics and Mechanical Diagrams	2
ELE	146	Electric Motor Control	4
ELE	233	Programmable Logic Controller Systems I	3
MTH	111	Basic Technical Mathematics	3
MEC	230	Mechatronics Process Control ¹	3
3rd Semester			Credits 16
CST	126	Interpersonal Communication	3
ETR	281	Digital Systems	3
INS	233	Process Control Integration	4
MEC	270	Computation for Engineering Technology	3
—	—	Technical Elective ¹ ²	3
4th Semester			Credits 15
ELE	211	Electrical Machines I	3
MEC	266	Application of Fluid Mechanics	3
—	—	Humanities/Fine Arts Elective ³	3
—	—	Social/Behavioral Science Elective ⁴	3
—	—	Technical Elective ¹ ²	3
Total Credits: 61			

¹ MEC 140, MEC 230, MEC 266, INS 233 and ETR 281 are only offered on the Manassas Campus

² Approved Technical Electives: INS 230, ETR 286, BUS 204, ELE 189, or ELE 250

³ See humanities/fine arts courses listed under General Education Electives

⁴ See social/behavioral science courses listed under General Education Electives

NOVA also offers a
Specialization of the Engineering Technology A.A.S. in Data Center Operations

C.S.C. Courses (Career Studies Certificate)

1st Semester			Credits 13
CAD	175	Schematics and Mechanical Diagrams	2
ITE	152	Intro to Digital and Info. Literacy and Computer App.	3
ELE	150	A.C. and D.C. Circuit Fundamentals	3
MTH	111	Basic Technical Mathematics (or higher)	3
SAF	130	Industrial Safety - OSHA 10	1
SDV	100	College Success Skills - OR -	
SDV	101	Orientation to (a Specific Discipline)	1

2nd Semester			Credits 14
ELE	146	Electric Motor Control	4
ELE	250	Fiber Optic Technology	3
IND	123	Intro to Lean Manufacturing and Six Sigma	1
IND	137	Team Concepts in Problem Solving	3
MEC	140	Introduction to Mechatronics	3

Total Credits: 27

The one-year C.S.C. curriculum is designed to prepare students for entry-level employment in technology companies and related industries that require technicians/technologists trained in engineering technology, mechatronics, automation, electronics, and robotics. Coursework will prepare students to earn the BICSI Installer 2 (Fiber Optic) and OSHA 10 industry credentials.

There are no required prerequisites for this certificate. It is recommended that the student possess a proficiency in high school English, high school algebra and geometry, and be proficient in utilizing hand tools and instrumentation.



Accepted Credit for Prior Learning (CPL) for Engineering Technology A.A.S. (CPL's for the C.S.C. may be equal to or less than the list below):
OSHA - OSHA 10 Certification

**For More Info about NOVA's
Engineering Technology A.A.S. Degree or C.S.C. go to www.nvcc.edu/iet**

NOVA | Northern Virginia
Community College



ENGINEERING TECHNOLOGY



Associate
of Applied
Science



Career
Studies
Certificate

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