ADVANCED TECHNOLOGY, ASSOCIATE IN APPLIED SCIENCE (ADVT)

Effective: Fall 2023

The Advanced Technology Program is designed to serve individuals who desire hands-on training and education for the acquisition or advancement of a technical career in areas such as manufacturing, electronics, industrial production, process control, computer aided design and drafting, facilities management and CNC operations.

The program is flexible enough that it can serve those both at entry level and those with established skills who seek technical growth or advancement through continued education. The program provides for up to 24 credits to be awarded toward the Associate of Applied Science Degree for technical courses or certificates completed at the college. The curriculum includes general education and information technology cores that will develop skills in communication, computer applications and applied science while strengthening problem solving and critical thinking skills essential to career advancement.

This program is designed primarily to serve students who have completed the Advanced Technology Certificate programs at the college. Ideally, students would pursue this program as continuing education after beginning employment as a trainee following certificate completion.

Program Outcomes

- Demonstrate competencies in the technical skills and knowledge required for careers in manufacturing and other advanced technology industries.
- Demonstrate effective professional communication skills.
- Apply appropriate problem solving tools and/or mathematical knowledge to industry tasks and processes.
- Demonstrate proficiency and implement appropriate project management methods to industry-related situations.
- Demonstrate knowledge of required industry safety standards and practices.

Curriculum

First Semester		Hours
CHE 101	Introduction to General Chemistry [SI]	4
ENG 100	English Composition I [CR, IL, WC]	3
TCC 111	Technical Communications [TC]	3
MAT 128	Algebra [QR]	4
Program Elective		3
	Hours	**17**
Second Semester		
ENG 112	English Composition II: Writing About Literature [CR, IL, WC]	3
MAT 151	College Algebra [QR]	4
PHY 107 or PHY 110	Technical Physics [SI] or College Physics I	4
Any Oral Communication (OC) designated course [OC]		3
Program Elective		3
	Hours	**17**
Third Semester		
TCS 141	Construction First Aid/Safety	3
Any Diversity and Social Justice (DJ) and Global Understanding (GU) designated Humanities/Social Science course [DJ, GU]		3
Program Electives		9
	Hours	**15**
Fourth Semester		
TCC 121	Project Management Processes	3
Program Electives		9
	Hours	**12**
	Total Hours	**61**

Notes

Program Electives (24 credits):

Any courses from ARC, IST, MTT, PCT, TCC, TCS, TDD, TEL, TME

Oral Communication designated courses. (https://catalog.dccc.edu/academic-programs/college-academic-learning-goals/#OC_Course_List)

Diversity and Social Justice and Global Understanding designated courses. (https://catalog.dccc.edu/academic-programs/college-academic-learning-goals/#Dual_DJ_GU_CourseList)

Career