

Career Pathways from WJCC high schools to Thomas Nelson Community College utilizing dual enrolled classes.

The following pathways are samples of student schedules that indicate yearly course selections that, if successfully completed, would obtain the Advanced Studies Diploma and incorporate dual enrolled classes at TNCC. Taking dual enrolled classes that are required for particular programs at Thomas Nelson Community College reduces the cost and time involved in obtaining a degree or certificate. These samples are not intended to be prescriptive.

Pathway to AS Degree in Computer Aided Drafting and Design Technology, to AS in Mechanical Engineering Technology, and AS in Mechanical Engineering Technology with specialization in Marine Engineering.

Career Family: Scientific Research and Engineering

Grade 9	Grade 10	Grade 11	Grade 12
English 9	English 10	English 11	English 12
Algebra I	Geometry	Algebra II	Trig/Functions
World History	World Geography	US & VA History	US & VA Gov't.
Earth Science	Biology	Chemistry	Physics
H/PE9	H/PE10	Elective	Elective
World Language	World Language	World Language	Elective
Fine Arts	Elective	Elective	Computer Drawing and Design*
Elective	Elective	Elective	Elective

*Dual Enrolled for 3 credits with DRF 151 at Thomas Nelson Community College

Pathway for Certificate in Communication Design Multi-Media

Career Family: Arts/Audio/Video Technology and Communication

Grade 9	Grade 10	Grade 11	Grade 12
English 9	English 10	English 11	English 12
Algebra I	Geometry	Algebra II	Trig/Functions
World History	World Geography	US & VA History	US & VA Gov't.
Earth Science	Biology	Chemistry	Physics
H/PE9	H/PE10	Elective	Elective
World Language	World Language	World Language	Elective
Fine Arts	Elective	Computer Drawing and Design	Computer Animation and Graphics*
Elective	Elective	Elective	Elective

*Dual enrolled at TNCC for ART 203 and counts toward the certificate.

Pathway to the AS in Management, and to the AS in Management with Specialization in Marketing

Career Family: Retail/Wholesale Sales and Service

Grade 9	Grade 10	Grade 11	Grade 12
English 9	English 10	English 11	English 12
Algebra I	Geometry	Algebra II	Trig/Functions
World History	World Geography	US & VA History	US & VA Gov't.
Earth Science	Biology	Chemistry	Physics
H/PE9	H/PE10	Elective	Elective
World Language	World Language	World Language	Elective
Fine Arts	Digital Input Technologies	Business Management*	Advanced Marketing*
Elective	Elective	Marketing	Elective

*Business Management and Advanced Marketing are dual enrolled and count for both degree programs.

Pathway to AS in Information Technology with specialization in Microcomputer Applications

Career Family: Information Technology

Grade 9	Grade 10	Grade 11	Grade 12
English 9	English 10	English 11	English 12
Algebra I	Geometry	Algebra II	Trig/Functions
World History	World Geography	US & VA History	US & VA Gov't.
Earth Science	Biology	Chemistry	Physics
H/PE9	H/PE10	Computer Information Systems I	Computer Information Systems II*
World Language	World Language	World Language	Design, Multimedia and Web Technologies*
Fine Arts	Digital Input Technologies	Business Management*	Elective
Elective	Elective		Elective

- Business Management, Computer Information Systems II, and Design, Multimedia & Web Technologies are dual enrolled with TNCC.

Pathway to AS in Automotive Technology

Career Family: Transportation, Distribution and Logistics

Grade 9	Grade 10	Grade 11	Grade 12
English 9	English 10	English 11	English 12
Algebra I	Geometry	Algebra II	Trig/Functions
World History	World Geography	US & VA History	US & VA Gov't.
Earth Science	Biology	Chemistry	Physics
H/PE9	H/PE10	Elective-technology	Elective
World Language	World Language	World Language	Elective
Fine Arts elective	Auto Tech I	Auto Tech II*	Auto Tech III*
Elective	Auto Tech I	Auto Tech II	Auto Tech III

- Auto Tech II and III are dual enrolled with Thomas Nelson Community College courses: AUT 112 for 4 credits, AUT 126 for 5 credits, and AUT 267 for 4 credits.

Pathway to A.A. S. in Technical Studies with a Major in Engineering Technology

Career Family: Scientific Research and Engineering

Grade 9	Grade 10	Grade 11	Grade 12
English 9	English 10	English 11	English 12
Algebra I	Geometry	Algebra II	Trig/Functions
World History	World Geography	US & VA History	US & VA Gov't.
Earth Science	Biology	Chemistry	Physics
H/PE9	H/PE10	Elective-technology	Elective
World Language	World Language	World Language	Elective
Fine Arts elective	Computer Drawing & Design	Elective	Elective
Elective	Elective	Elective	Elective

Computer Drawing and Design is dual enrolled and counts toward the 68 credits required for this degree. Project Lead the Way courses covering digital electronics, AC/DC circuits and robotics may be added to the dual enrollment opportunities that will lead to this degree. This A.A.S. degree is part of a Career Pathway that leads to the B.S. in Engineering Technology at Old Dominion University. (12/05)

Pathway to A.A.S. in Technical Studies with a Major in Materials Science

Career Family: Scientific Research and Engineering

Grade 9	Grade 10	Grade 11	Grade 12
English 9	English 10	English 11	English 12
Algebra I	Geometry	Algebra II	Trig/Functions
World History	World Geography	US & VA History	US & VA Gov't.
Earth Science	Biology	Chemistry	AP Chemistry
H/PE9	H/PE10	Elective-technology	Elective
World Language	World Language	World Language	Elective
Fine Arts elective	Computer Drawing & Design	Elective	Elective
Elective	Elective	Elective	Elective

Computer Drawing and Design is dual enrolled and counts toward the 69 credits required for this degree. A Project Lead the Way course covering AC/DC circuits may be added to the dual enrollment opportunities that will lead to this degree. Additionally, The degree requires General College Chemistry (CHM 111). An AP score of 3 or above would give a student 8 credits toward the degree.