

Northern Virginia Community College 2008-2009 Catalog

ENGINEERING TECHNOLOGY:

Drafting Specialization

Associate of Applied Science

AL, AN

Purpose: This curriculum is designed to provide individuals with skills, knowledge, and techniques to obtain employment as a drafter in any of the many architectural or engineering firms and other organizations requiring drafting and design professionals. This degree offers a broad range of drafting experiences. With technical electives each individual is offered the opportunity to emphasize a particular drafting area of interest.

Internships are available through Cooperative Education and students are encouraged to participate to complement academic preparation.

Two Years		Credits
1st Semester		
ARC	121 Architectural Drafting I	3
CSC	110 Introduction to Computing or ETR 106 Basic Prog. Applied to Electrical/Electronic Calculations	2-3
ENG	111 College Composition I	3
¹ MTH	166 Precalculus with Trigonometry	5
² SPD	Elective	3
SDV	Elective	<u>1</u>
	Total	17-18
2nd Semester		
ARC	122 Architectural Drafting II	3
DRF	201 Computer Aided Drafting & Design I	4
³ PED	116 Lifetime Fitness & Wellness	1
³ PED/RPK	Elective	1
⁴ —	Social Science Elective	3
⁵ —	Technical Elective	2
⁵ —	Technical Elective	<u>3</u>
	Total	17
3rd Semester		
ARC	133 Construction Methodology & Procedures I	3
DRF	202 Computer Aided Drafting & Design II	4
EGR	115 Engineering Graphics	2
EGR	130 Statics & Strength of Materials	5
⁶ HIS	101 History of Western Civilization I	<u>3</u>
	Total	17
4th Semester		
⁷ CIV	171 Surveying I	3
^{5,7} CIV	210 Structural Systems or Tech. Elec.	4-5
⁸ MEC	118 Automated Manufacturing Tech.	3
⁵ —	Technical Elective	3
⁵ —	Technical Elective	<u>3</u>
	Total	16-17

Total credits for the A.A.S. Degree in Engineering Technology with a Specialization in Drafting = 67-69.

¹ MTH 163-164, 6 cr., may be substituted for MTH 166.

² The SPD elective may be selected from the following: SPD 100, 110, 115, 126, 227 or 229.

³ The PED requirement may be met by one of the following options: PED 116, 2 cr.; PED 116, 1 cr. plus a PED activities course, 1 cr.; or PED 116, 1 cr. plus RPK activities course. PED 116 is offered as both a 1-credit and a 2-credit course.

⁴ The social science elective may be selected from the social/behavioral sciences courses listed under General Education Electives. Students planning to transfer should consider taking HIS 101-102 or HIS 111-112.

⁵ Technical electives may be selected from ARC, CIV, DRF, or ETR prefixes. MEC 210 (which is offered only on Annandale Campus) may also be selected.

⁶ Or select HIS 102, 111-112, 255, or 256 with approval of faculty advisor.

⁷ CIV courses are offered only on the Alexandria campus.

⁸ MEC 118 is offered only on the Annandale campus.