

Northern Virginia Community College 2007-2008 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 PED	116 Lifetime Fitness & Wellness	1
SDV	Elective	<u>1</u>
Total		15-16
2nd Semester		
ARC	122 Architectural Drafting II	3
DRF	201 Computer Aided Drafting & Design I	4
² PED/RPK		1
³ _____	Social Science Elective	3
⁴ SPD	Elective	3
⁵ _____	Technical Elective	2
⁵ _____	Technical Elective	<u>3</u>
Total		19
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 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.

³ The social science elective may be selected from the economics, geography, history, political science, psychology, or sociology (includes anthropology) courses listed on page 54. Students planning to transfer should consider taking HIS 101-102 or HIS 111-112.

⁴ The SPD elective may be selected from the following: SPD 100, 110, 115, 126, 227 or 229.

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.