

**ENGINEERING TECHNOLOGY: Civil Engineering Technology Specialization**

Associate of Applied Science

**AL**

*Purpose:* This curriculum is designed to prepare students for either employment in civil engineering or the construction industry as a technician or to provide a broad foundation for those individuals who wish to continue their education. Specialization is achieved through the selection of courses for the technical elective requirement. Graduates may seek employment as civil, structural, land planning CAD operators and civil or construction engineering technicians.

<b>Two Years</b>		<b>Credits</b>
<b>1st Semester</b>		
<sup>1</sup> CIV	171 Surveying I	3
DRF	201 Computer Aided Drafting and Design I	4
EGR	115 Engineering Graphics or DRF 165 Architectural Blue-Print Reading	2-3
CSC	110 Introduction to Computing	3
ENG	111 College Composition I	3
<sup>2</sup> PED	116 Lifetime Fitness & Wellness	1
SDV	Elective	<u>1</u>
<b>Total</b>		<b>17-18</b>
<b>2nd Semester</b>		
<sup>1</sup> CIV	172 Surveying II	3
<sup>1</sup> CIV	225 Soil Mechanics	2
<sup>1</sup> CIV	226 Soil Mechanics Laboratory	1
DRF	202 Computer Aided Drafting & Design II	4
<sup>3</sup> MTH	166 Precalculus with Trigonometry	5
<sup>4</sup> —	Social Science Elective	<u>3</u>
<b>Total</b>		<b>18</b>
<b>3rd Semester</b>		
ARC	122 Architectural Drafting II or DRF 203 Computer Aided Drafting & Design III (Land Development Desktop)	3
ARC	133 Construction Methodology & Procedures I	3
DRF	260 Computer Applications for Surveyors and Technicians (Land Development Desktop)	3
EGR	130 Statics & Strength of Materials or <sup>5</sup> Technical Elective	5
<sup>2</sup> PED/RPK		<u>1</u>
<b>Total</b>		<b>15</b>
<b>4th Semester</b>		
ARC	225 Site Planning & Technology	3
<sup>1</sup> CIV	210 Structural Systems or <sup>5</sup> Technical Elective	5
<sup>1</sup> CIV	228 Concrete Technology	2
<sup>1</sup> CIV	229 Concrete Lab	1
<sup>6</sup> HIS	101 History of Western Civilization I	3
<sup>7</sup> SPD	Elective	<u>3</u>
<b>Total</b>		<b>17</b>

**Total credits for the A.A.S. Degree in Engineering Technology with a Specialization in Civil Engineering Technology = 67-68.**

<sup>1</sup> CIV classes are offered only on the Alexandria Campus.

<sup>2</sup> 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 205, 216 or 225. PED 116 is offered as both a 1-credit and a 2-

credit course.

<sup>3</sup> MTH 163-164, Precalculus I-II, may be substituted for MTH 166.

<sup>4</sup> 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.

<sup>5</sup> Technical elective must be approved by faculty advisor. Acceptable courses include ARC 200, ART 121, BLD 231, DRF 195/295, DRF 233, or HRT 246.

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

<sup>7</sup> The SPD elective may be selected from the following: SPD 100, 110, 115, 126, 227 or 229.

p. 2, A.A.S. Degree in Engineering Technology with a Specialization in Civil Engineering Technology