

**ENGINEERING TECHNOLOGY:  
Mechanical Engineering Technology Specialization**

Associate of Applied Science

AN

*Purpose:* This curriculum is designed to prepare the student for employment as a mechanical engineering technician or for transfer to a four-year college to seek a bachelor's degree. Students who intend to transfer to a four-year degree program must see a faculty advisor prior to selecting courses. Occupational objectives include mechanical draftsman, engineering technician, research and development technician, engineering equipment inspector, engineering plant operator or estimator.

<b>Two Years</b>		<b>Credits</b>
<b>1st Semester</b>		
CSC	110 Introduction to Computing or ETR 106 Basic Program Applied to Electrical/Electronic Calculations	2-3
EGR	115 Engineering Graphics	2
ENG	111 College Composition I	3
<sup>1</sup> Humanities/Fine Arts Elective		3
<sup>2</sup> MTH	166 Precalculus with Trigonometry	5
SDV	Elective	<u>1</u>
<b>Total</b>		<b>16-17</b>
<b>2nd Semester</b>		
DRF	152 Engineering Drawing Fundamentals II	3
DRF	201 Computer Aided Drafting & Design I	4
MEC	112 Processes of Industry	3
MEC	118 Automated Manufacturing Tech.	3
<sup>3</sup> PED	116 Lifetime Fitness & Wellness	1
<sup>4</sup> —	Social Science Elective	<u>3</u>
<b>Total</b>		<b>17</b>
<b>3rd Semester</b>		
DRF	202 Computer Aided Drafting & Design II	4
EGR	130 Statics & Strength of Materials	5
MEC	265 Fluid Mechanics	3
<sup>3</sup> PED/RPK	Elective	1
PHY	201 General College Physics I	<u>4</u>
<b>Total</b>		<b>17</b>
<b>4th Semester</b>		
<sup>5</sup> CIV	210 Structural Systems or Technical Elective	4-5
<sup>6</sup> CST	Elective	3
DRF	203 Computer Aided Drafting & Design III	3
MEC	210 Machine Design	3
PHY	202 General College Physics II	<u>4</u>
<b>Total</b>		<b>17-18</b>

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

<sup>1</sup> Humanities/fine arts elective may be selected from the humanities/fine arts courses listed under General Education Electives.

<sup>2</sup> MTH 163-164, 6 cr., may be substituted for MTH 166.

<sup>3</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 activities course. PED 116 is offered as both a 1-credit and a 2-credit course.

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MECHANICAL ENGINEERING TECHNOLOGY SPECIALIZATION A.A.S.**

<sup>4</sup> 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.

<sup>5</sup> CIV courses are offered only on the Alexandria Campus. Technical electives may be selected from ARC, CIV, DRF, or ETR prefixes.

<sup>6</sup> The CST elective may be selected from the following: CST 100, 110, 115, 126, 227 or 229.