

**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.

Two Years		Credits
1st Semester		
CSC	110 Introduction to Computing or ETR 106 Basic Prog. Applied to Electrical/Electronic Calculations	2-3
EGR	115 Engineering Graphics	2
ENG	111 College Composition I	3
¹ HIS	101 History of Western Civilization I	3
² MTH	166 Precalculus with Trigonometry	5
SDV	Elective	<u>1</u>
	Total	16-17
2nd Semester		
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
³ PED	116 Lifetime Fitness & Wellness	1
⁴ ___	Social Science Elective	<u>3</u>
	Total	17
3rd Semester		
DRF	202 Computer Aided Drafting & Design II	4
EGR	130 Statics & Strength of Materials	5
MEC	265 Fluid Mechanics	3
³ PED/RPK	Elective	1
PHY	201 General College Physics I	<u>4</u>
	Total	17
4th Semester		
⁵ CIV	210 Structural Systems or Technical Elective	4-5
DRF	203 Computer Aided Drafting & Design III	3
MEC	210 Machine Design	3
PHY	202 General College Physics II	4
⁶ SPD	Elective	<u>3</u>
	Total	17-18

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

¹ Or select HIS 102, 111-112, 255, or 256 with approval of faculty advisor.

² MTH 163-164, 6 cr., may be substituted for MTH 166.

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

⁶ The SPD elective may be selected from the following: SPD 100, 110, 115, 126, 227 or 229.