

**COMPUTER AND ELECTRONICS TECHNOLOGY**

Associate of Applied Science Degree

**AN**

*Purpose:* This curriculum is designed to prepare persons for employment in the computer, telecommunications, and other industries with a significant electronics component. Occupational objectives include entry-level opportunities in the computer, telecommunications, radio and television, electronics, metrology, and industrial control fields with positions involving activities such as research and development, laboratory support, electronics equipment fabrication or repair, and field test support.

*Transfer Information:* Transfer is **not** the primary purpose of an A.A.S. program, but NOVA has articulation agreements that facilitate the transfer of this and other career-oriented programs to selected senior institutions. Students interested in transfer should contact a counselor or their faculty advisor early in their program.

*Recommended Preparation:* Successful completion of high school algebra and geometry.

<b>Two Years</b>		<b>Credits</b>
<b>1st Semester</b>		
ENG	111 College Composition I	3
ETR	113 DC & AC Fundamentals I	4
ETR	167 Logic Circuits and Systems I	4
MTH	166 Precalculus with Trigonometry	5
<sup>1</sup> PED	116 Lifetime Fitness & Wellness	1
SDV	Elective	<u>1</u>
	<b>Total</b>	<b>18</b>
<b>2nd Semester</b>		
ENG	115 Technical Writing or ENG 112 College Composition II	3
ETR	107 Programming Appl. for ELE/ETR Calculations	4
ETR	114 DC & AC Fundamentals II	4
ETR	144 Devices & Applications II	4
<sup>2</sup> MTH	271 Applied Calculus I	<u>3</u>
	<b>Total</b>	<b>18</b>
<b>3rd Semester</b>		
ETR	250 Solid State Circuits	4
ETR	285 Fundamentals of Microcomputer Repair or ITN 107 Personal Computer Hardware and Troubleshooting	4-3
<sup>1</sup> PED/RPK	Elective	1
<sup>3</sup> _____	Social Science Elective	3
<sup>4</sup> SPD	Elective	<u>3</u>
	<b>Total</b>	<b>14-15</b>
<b>4th Semester</b>		
ESR	180 Personal Computer Networking or ITN 101 Intro. to Network Concepts	4-3
ETR	261 Microprocessor Application I or ETR 159 Microcomputer Peripherals	4
<sup>5</sup> _____	Humanities/Fine Arts Elective	3
PHY	201 College Physics I	4
<sup>3</sup> _____	Social Science Elective	<u>3</u>
	<b>Total</b>	<b>17-18</b>

**Total credits for the A.A.S. Degree in Computer and Electronics Technology = 67-69.**

<sup>1</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.

<sup>2</sup> MTH 173 may be substituted for MTH 271.

<sup>3</sup> The social science elective may be selected from the social/behavioral sciences courses listed under General Education Electives.

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

<sup>5</sup> Humanities/fine arts elective may be selected from the humanities/fine arts courses listed under General Education Electives.