

NUCLEAR ENGINEERING TECHNOLOGY, AS

Program code: NENT-AS

Location: Three Rivers

Prerequisites to the Program

| Code | Title | Credits |
|----------------------|-----------------|-----------|
| MATH 1610 | Precalculus | 4 |
| PHYS 1104 | Mechanics | 4 |
| COMM 1301 | Public Speaking | 3 |
| Total Credits | | 11 |

Degree Requirements

| Code | Title | Credits |
|--|---|---------|
| General Education Courses | | |
| ENG 1010 | Composition | 3 |
| MATH 2600 | Calculus I | 4 |
| Elective ARHX - Arts & Humanities Course | | 3-4 |
| PHYS 1105 | Heat Sound Light | 4 |
| Elective SBSX - Social / Behavioral Science Course or Elective HISX - Historical Knowledge Course | | 3 |
| ENG 1080 | Composition II: Technical Writing | 3 |
| CCS 1001 | College and Career Success | 3 |
| Program Courses | | |
| CHEM 1210 | General Chemistry I | 4 |
| Computer Science Elective ¹ | | 3-4 |
| EET 1044 | Fundamentals of Electric Circuits and Machines | 3 |
| EET 1045 | Fundamentals of Electric Circuits and Machines Lab | 1 |
| MATH 2610 | Calculus II | 4 |
| MECH 2072 | Fluid Mechanics and Thermodynamics | 4 |
| MECH 2074 | Heat Transfer | 2 |
| MECH 2075 | Thermal Sciences Lab | 1 |
| NTEC 1000 | Introduction to Nuclear Systems | 3 |
| NTEC 1100 | Radiation Health Safety | 2 |
| NTEC 1110 | Radiation Health Safety Lab | 1 |
| NTEC 1170 | Atomic and Reactor Physics | 4 |
| NTEC 1180 | Nuclear Chemistry | 1 |
| NTEC 2100 | Nuclear Instruments and Controls | 2 |
| NTEC 2110 | Nuclear Instruments and Controls Lab | 1 |
| NTEC 2200 | Nuclear Simulator | 1 |
| NTEC 2210 | Nuclear Simulator Lab | 1 |
| NTEC 2300 | Nuclear Topics | 2 |
| NTEC 2500 | Reactor Theory | 4 |
| NTEC 2600 | Nuclear Material Science | 2 |

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|----------------------|------------------------------|--------------|
| NTEC 2610 | Nuclear Material Science Lab | 1 |
| Total Credits | | 70-72 |

¹ CSA 1110 Introduction to Software Applications or CSC 1201
Introduction to Programming recommended