

# NUCLEAR POWER TECHNOLOGY (INSTRUMENTATION & CONTROL) - ON DEMAND

New enrollments into this program are restricted as of Summer 2025. Please contact an academic advisor about alternative options.

## Associate in Applied Science Checklist

- View the General Education Matrix for a complete list of qualifying courses.
- Fulfill the College Degree Requirements in conjunction with this degree plan.
- Consult an Academic Advisor to ensure all academic requirements are met.

## Summary

|                      |           |
|----------------------|-----------|
| Prescribed Program   | 57        |
| General Education    | 15        |
| Digital Literacy     |           |
| <b>Total Credits</b> | <b>72</b> |

## Degree Plan

### Prescribed Program

|                      |  |           |
|----------------------|--|-----------|
| NUPT 103             | Nuclear Mathematical Fundamentals                  | 3         |
| NUPT 219             | Material Science                                   | 3         |
| NUPT 105             | Classical Physics                                  | 4         |
| NUPT 221             | Science of Radiological Protection                 | 3         |
| NUPT 113             | Mechanical Science                                 | 3         |
| NUPT 215             | Nuclear Plant Chemistry                            | 3         |
| NUPT 109             | Electrical Science                                 | 4         |
| NUPT 213             | Nuclear Physics                                    | 3         |
| ICTL 215             | Instrumentation Drawings and Documents             | 4         |
| NUPT 217             | Heat Transfer, Fluid Flow and Thermodynamics       | 4         |
| NUPT 111             | Instrumentation and Control                        | 4         |
| ICTL 225             | Input and Output Devices                           | 4         |
| ICTL 235             | Motors and Controllers                             | 4         |
| NUPT 225             | Nuclear Plant System Component Design and Function | 4         |
| NUPT 223             | Reactor Safety Design                              | 3         |
| NUPT 229             | Instrumentation & Control II                       | 4         |
| <b>Total Credits</b> |  | <b>57</b> |

### General Education

#### Written or Oral Communications

|                              |                                      |          |
|------------------------------|--------------------------------------|----------|
| ENGL 110                     | College Composition I                | 3        |
| Select one of the following: |                                      | 3        |
| COMM 110                     | Fundamentals of Public Speaking      |          |
| ENGL 120                     | College Composition II               |          |
| ENGL 125                     | Introduction to Professional Writing |          |
| <b>Credits Subtotal</b>      |                                      | <b>6</b> |

#### Arts & Humanities/Social & Behavioral Sciences

|  |                       |   |
|--|-----------------------|---|
| Select one of the following recommended courses: |                       | 3 |
| HIST 103   | United States to 1877 |   |

|                         |                              |          |
|-------------------------|------------------------------|----------|
| ECON 201                | Principles of Microeconomics |          |
| PSYC 111                | Introduction to Psychology   |          |
| SOC 110                 | Introduction to Sociology    |          |
| <b>Credits Subtotal</b> |                              | <b>3</b> |

### Business, Math, Science, & Technology (Two Areas of Study)

|  |   |   |
|--|---|---|
| Select one of the following recommended courses: |   | 3 |
| CSCI 101   | Introduction to Computers <sup>1</sup>          |   |
| CIS 147  | Principles of Information Security <sup>1</sup> |   |

|  |                       |   |
|--|-----------------------|---|
| Select one of the following recommended courses: |                       | 3 |
| MATH 137   | Applied Algebra       |   |
| MATH 210   | Elementary Statistics |   |

|                         |  |          |
|-------------------------|--|----------|
| <b>Credits Subtotal</b> |  | <b>6</b> |
|-------------------------|--|----------|

|  |  |           |
|--|--|-----------|
| <b>General Education Total Credits</b> |  | <b>15</b> |
|--|--|-----------|

### Digital Literacy

Select one of the following:

|   |   |  |
|---|---|--|
| CSCI 101  | Introduction to Computers <sup>1</sup>          |  |
| CIS 147   | Principles of Information Security <sup>1</sup> |  |
| BSC Approved Training Course                        |   |  |
| NDUS Institution Approved Training Course           |   |  |
| NDUS Institution Designated Digital Literacy Course |   |  |

### Footnotes

<sup>1</sup>

CSCI 101, CIS 147 or courses transferred in from another NDUS Institution that are listed as both general education and digital literacy may satisfy both requirements upon successful completion.