



CATALOG 2021-22

GE Pattern: [VVC.GE](#)

Total Units: 60 Units

Program Code: [PHYS.AS](#)

Potential Career Options

Possible employment includes:

- *Nuclear Engineers
- *Astronomers
- *Physicists
- *Atmospheric and Space Scientists
- *Materials Scientists
- Nuclear Equipment Operation and Monitoring Technicians
- *Physics Teachers – Postsecondary
- *Biochemists and Biophysicists

Average Salary Information

\$115,890 Annually

*Upon Completion of Bachelor's degree or higher

STUDENT SUCCESS TEAM SUPPORT

School Dean

Hamid Eydgahi

(760) 245-4271 Extension 2942

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RAMPath Counselor

Lyman Insley

(760) 245-4271 Extension 2208

Lyman.Insley@vvc.edu

Faculty Advisor

Vacant

EXPLANATION OF CATEGORIES

| | | |
|-------------|---------------------|---|
| Req | Required Core | A course that is required for this degree |
| GE | General Education | A course that fulfills a specific general education requirement for this degree, which can be replaced with another course that meets the same requirement |
| RE | Restricted Elective | A course selected from a list of elective courses specified for this degree in the course list in the catalog, which can be replaced with another course from the same list |
| Elec | Elective | A degree-applicable course that is part of a degree roadmap to ensure that there is a total of at least 60 units, which is a requirement for an associate degree |

Year 1, Semester 1

Total: 15.0

| Category | Course | Title | GE Area | Unit |
|----------|-------------|-----------------------------------|---------|------|
| Req | *PHYS 201 | Engineering Physics I - Mechanics | | 4.0 |
| GE | *MATH 226 | Analytic Geometry and Calculus I | V | 4.0 |
| GE | #ENGL 101.0 | English Composition and Reading | IVA | 4.0 |
| GE | Any | | IVB | 3.0 |

*Placement into MATH 226 or completion of MATH 104 and MATH 105 is required before beginning this program.

#Fulfills VVC GE Category IVA and Information Competency requirement.

Year 1, Semester 2

Total: 14.0

| Category | Course | Title | GE Area | Unit |
|----------|----------|--|---------|------|
| Req | PHYS 202 | Engineering Physics II – Fluids, Sound, and Thermodynamics | | 4.0 |
| Elec | MATH 227 | Analytic Geometry and Calculus II | | 4.0 |
| GE | ^Any | | IIA | 3.0 |
| GE | ^Any | | III | 3.0 |

^Select a course that fulfills either GE category IIA or III and Global Citizenship requirement.

Year 2, Semester 1

Total: 13.0

| Category | Course | Title | GE Area | Unit |
|----------|----------|--|---------|------|
| Req | PHYS 203 | Engineering Physics III – Electricity and Magnetism | | 4.0 |
| Elec | MATH 228 | Analytic Geometry and Calculus III | | 5.0 |
| GE | Any | | IIB | 3.0 |
| GE | Any | HLTH 102 or any APE, KIN, KIND (or TA course that is cross-listed with KIND) course. | Kin | 1.0 |

Year 2, Semester 2

Total: 18.0

| Category | Course | Title | GE Area | Unit |
|----------|----------|--|---------|------|
| Req | PHYS 204 | Engineering Physics IV – Optics and Modern Physics | | 4.0 |
| Req | PHYS 210 | Computer Methods for Engineers | | 4.0 |
| GE | CHEM 201 | General Chemistry | I | 5.0 |
| Elec | Any | Any course(s) numbered 50 or above. | | 5.0 |