





Sample Plan and Course Flow Chart Template – Applied Math-Physics

| | | Year 1 | | | |
|--------|--------------------------|---|--|--|---|
| Year 1 | Semester 1 (16 Units) | MATH 021 Calculus I for Physical Sciences & Engineering (4 units) | PHYS 08/08H Introductory Physics I (4 units) | SPARK Seminar (4 units) | CHEM 02/02H General Chemistry I (4 units) |
| | Semester 2 (14 Units) | MATH 022 Calculus II for Physical Sciences & Engineering (4 units) | PHYS 09/09H Introductory Physics II (4 units) | WRI 10 College Reading & Composition (4 units) | CSE 20/ME 21 Intro to Computing I or Engineering Computing (2 or 4 units) |
| Year 2 | Semester 3 (16 Units) | MATH 24 Linear Algebra & Differential Equations (4 units) | PHYS 10 Introductory Physics III (4 units) | Approaches to Knowledge Area B (4 units) | BIO 01 or ESS 01 Requirement (4 units) |
| | Semester 4 (16 Units) | MATH 023 Vector Calculus (4 units) | MATH 032 Probability and Statistics (4 units) | Approaches to Knowledge Area B (4 units) | Free Elective (4 units) |
| Year 3 | Semester 5 (16 Units) | MATH 130 Numerical Analysis (4 units) | MATH 125 Intermediate Differential Equations (4 units) <i>*Crossroads Requirement</i> | UD PHYS Emphasis Elective (4 units) | Writing in Discipline (4 units) |
| | Semester 6 (16 Units) | MATH 126 Partial Differential Equations (4 units) | UD PHYS Emphasis Elective (4 units) | Approaches to Knowledge Area B (4 units) | Free Elective (4 units) |
| Year 4 | Semester 7 (16 Units) | MATH 122 Complex Variables (4 units) | MATH 141 Linear Analysis I (4 units) | UD PHYS Emphasis Elective (4 units) | Free Elective (4 units) |
| | Semester 8 (12 Units) | MATH 132/MATH 146 Numerical Methods Diff Eq./Numerical Linear Algebra (4 units) | MATH 150 Mathematical Modeling (4 units) <i>*Integrative Culminating Experience</i> | | Free Elective (4 units) |

-  Major Requirement Only
-  General Education Requirement Only
-  Major Requirement and General Education Requirement Free
-  Elective units Meets Badge

- This sample plan demonstrates the recommended sequencing and timing of the required and elective components within the major.
- In many cases, a student's academic background will require variations in the timing of the coursework listed in the plan.
- All students are expected to work with their academic advisor to find their best pathway through the degree requirements of their chosen program.