

MATHEMATICS B.S.

Four Year Plan

Disclaimer: This *sample* Four Year Plan is provided as a guide for the recommended sequencing of courses. Vanguard University requires that students complete a minimum of 120 units of required course work as outlined on the Requirements tab in order to receive a Bachelor of Arts, Bachelor of Music, Bachelor of Science, or Bachelor of Science in Nursing degree. It is the student's responsibility to confirm with the department the course rotation before enrolling in courses. If applicable, please note the footnotes at the bottom of the page for additional information related to courses listed in a particular year and term. Questions, contact the Department of Physical Science and Mathematics.

| Course | Title | Units |
|----------------------|---|--------------|
| Year 1 Term 1 | | |
| CORE-100C | Cornerstone | 1 |
| MATH-180C | Calculus 1 | 4 |
| ENGL-120C | Persuasive Writing | 3 |
| KINE-145C | Lifetime Fitness/Wellness Lect | 1 |
| NT-101C | New Testament Survey | 3 |
| HIST-PLCR1 | History Core Requirement (US History) | 3 |
| Units | | 15 |
| Year 1 Term 2 | | |
| MATH-181C | Calculus II | 4 |
| THEO-PLHD | Theology Core Requirement | 3 |
| CSCI-100C | Introduction to Computer Science | 3 |
| CSCI-100CL | Introduction to Computer Science Lab | 1 |
| MATH-285 | Intro to Adv Mathematics | 3 |
| KINE-146C | Lifetime Fitness/Well Activity | 1 |
| COMM-201C | Speech Composition and Presentation | 3 |
| Units | | 18 |
| Year 2 Term 1 | | |
| MATH-281 | Multivariable Calculus | 4 |
| PSCI-223C | Mechanics of Solids and Fluids | 3 |
| PSCI-223CL | Mechanics of Solids and Fluids Lab | 1 |
| MATH-300 | Linear Algebra | 3 |
| MATH-375 | Discrete Mathematics | 3 |
| Units | | 14 |
| Year 2 Term 2 | | |
| MATH-265C | Intro to Statistical Methods | 3 |
| PSCI-225 | Electricity and Magnetism | 3 |
| PSCI-225L | Electricity and Magnetism Lab | 1 |
| MATH-207 | Computer Programming | 3 |
| MATH-PLUD3A | MATH Upper Division Elective (3-4 unit) | 3-4 |
| Units | | 13-14 |
| Year 3 Term 1 | | |
| THEO-300C | Developing a Christian World View | 3 |
| SOC-PLCR | Social Science Core Curriculum Req'm't | 3 |

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|----------------------|---|----------------|
| MATH-410 | Abstract Algebra | 3 |
| MATH-PLUD3A | MATH Upper Division Elective (3-4 unit) | 3-4 |
| OT-201C | Old Testament Survey | 3 |
| Units | | 15-16 |
| Year 3 Term 2 | | |
| MATH-365 | Probability and Statistics | 3 |
| MATH-485 | Undergraduate Research | 2 |
| MATH-330 | Number Theory | 3 |
| MATH-380 | Elementary Analysis I | 3 |
| FINA-PLCR | Fine Arts Core Curriculum Requirement | 3 |
| Units | | 14 |
| Year 4 Term 1 | | |
| MATH-390 | Numerical Analysis | 3 |
| ENGL-220C | Researched Writing | 3 |
| HIST-PLCR2 | History Core Requirement (World Civ) | 3 |
| MATH-PLUD3A | MATH Upper Division Elective (3-4 unit) | 3-4 |
| SOC-PLCR | Social Science Core Curriculum Req'm't | 3 |
| Units | | 15-16 |
| Year 4 Term 2 | | |
| MATH-420 | Higher Geometry | 3 |
| MATH-499C | Mathematics Capstone | 2 |
| ENGL-230C | Literature and the Human Experience | 3 |
| MATH-PLUD3A | MATH Upper Division Elective (3-4 unit) | 3-4 |
| CHIS-400C | Christian Heritage | 3 |
| Units | | 14-15 |
| Total Units | | 118-122 |

