

Huntington University

4-Year Guide to Typical Programs, 2022-2026

Electrical Engineering (B.S. Degree)

Mathematics (B.S. Degree)

Advisors: Dr. Hoffman & Prof. Garwood

Note that this is a "Typical Program." Actual programs will vary. See the Academic Catalog for official details.

| Fall 2022 | | | Spring 2023 | | | Summer 2023 | | |
|------------------|--|-----------|------------------|--|-----------|-------------------|------------------------------------|--------------|
| <u>CH 161/L:</u> | <u>Principles of Chemistry I</u> | 4 | <u>MA 172:</u> | <u>Calculus II</u> | 4 | MI 285: | Understand the Christian Faith | 3 |
| <u>MA 165:</u> | <u>Intro to Discrete Mathematics</u> | 3 | <u>EE 101:</u> | <u>Intro to Electrical Engineering</u> | 1 | PY 111: | Intro to Psychology | 3 |
| <u>MA 171:</u> | <u>Calculus I</u> | 4 | <u>EE 201/L:</u> | <u>Intro to Digital Electronics & Lab</u> | 3 | | | |
| HS 115: | Hist Persp on Cult & Civ I | 3 | HS 116: | Hist Persp on Cult & Civ II | 3 | | | |
| EN 121: | Academic Writing & Research | 3 | BT ____: | Introductory Bible | 3 | | | |
| | | | * PL 260: | Introduction to Ethics | 3 | | | |
| | total | 17 | | total | 17 | | | total |
| | | | | | | | | 6 |
| Fall 2023 | | | Spring 2024 | | | Summer 2024 | | |
| <u>MA 205:</u> | <u>Intro to Mathematical Proofs</u> | 3 | * <u>MA 210:</u> | <u>History of Mathematics²</u> | 1 | <u>PHYS251CL:</u> | <u>University Physics I (Lab)</u> | 1 |
| <u>MA 273:</u> | <u>Calculus III</u> | 4 | * <u>MA 311:</u> | <u>Linear Algebra²</u> | 3 | <u>PHYS252CL:</u> | <u>University Physics II (Lab)</u> | 1 |
| <u>EE 206/L:</u> | <u>Circuit Analysis & Lab</u> | 4 | * <u>MA 371:</u> | <u>Differential Equations</u> | 3 | EX 101: | Wellness for Life | 2 |
| <u>EE 304:</u> | <u>Computer Aided Measure/Control</u> | 3 | <u>EE 313/L:</u> | <u>Linear Electric Circuits & Lab</u> | 4 | | | |
| <u>PHYS251C:</u> | <u>University Physics I (Lecture)</u> | 3 | <u>PHYS252C:</u> | <u>University Physics II (Lecture)</u> | 3 | | | |
| | | | EN 151: | Perspectives on Literature | 3 | | | |
| | total | 17 | | total | 17 | | | total |
| | | | | | | | | 4 |
| Fall 2024 | | | Spring 2025 | | | Summer 2025 | | |
| * <u>MA 431:</u> | <u>Real Analysis</u> | 4 | <u>EE 401/L:</u> | <u>Electric Drives & Lab</u> | 4 | CO 215: | Public Speaking | 3 |
| <u>EE 314/L:</u> | <u>Signals and Systems & Lab</u> | 4 | <u>EE 405/L:</u> | <u>Control Systems I & Lab</u> | 4 | 115: | Intro to AR/DM/MU/TH | 2 |
| <u>EE 316:</u> | <u>Electric & Magnetic Fields</u> | 3 | <u>EE 409:</u> | <u>Distributed Network</u> | 3 | | | |
| <u>EE 321/L:</u> | <u>Electronics I & Lab</u> | 4 | <u>EE 421/L:</u> | <u>Electronics II & Lab</u> | 4 | | | |
| EB 211: | Principles of Macroeconomics | 3 | <u>EE 452/L:</u> | <u>Embedded Systems & Lab</u> | 4 | | | |
| | total | 18 | | total | 19 | | | total |
| | | | | | | | | 5 |
| Fall 2025 | | | Spring 2026 | | | Summer 2026 | | |
| * <u>MA 411:</u> | <u>Abstract Algebra</u> | 4 | * <u>MA 471:</u> | <u>Probability & Math Statistics²</u> | 4 | | | |
| <u>MA 481:</u> | <u>Seminar in Mathematics</u> | 1 | <u>EE 481:</u> | <u>Senior Design II</u> | 3 | | | |
| <u>ENGR460:</u> | <u>Engineering Economy</u> | 3 | <u>EE ____:</u> | <u>Electrical Engineering Elective</u> | 3 | | | |
| <u>EE 480:</u> | <u>Senior Design I</u> | 3 | <u>EE ____:</u> | <u>Electrical Engineering Elective</u> | 3 | | | |
| <u>EE ____:</u> | <u>Electrical Engineering Elective</u> | 3 | BT ____: | Bible Elective [300+ level] | 3 | | | |
| <u>EE ____:</u> | <u>Electrical Engineering Elective</u> | 3 | | Creative Studio Arts | 1 | | | |
| | total | 17 | | total | 16 | | | total |
| | | | | | | | | |

NOTES:

1. Students who take mathematics or computer science courses must demonstrate satisfactory mathematics placement scores prior to enrolling in their intended mathematics or computer science courses (see *mathematics placement policy in Catalog under Academic Information*).
2. These courses are offered spring odd years and are listed out of the usual sequence. The department will provide an alternate plan to ensure that the course requirement is met.

*Indicates alternating year course.

Italics indicates University of North Dakota courses.

Underlining indicates required for major.