**Northern New Mexico College**
**Bachelor of Engineering in Information Engineering Technology**

**Semester 1**
- ENGR 215 Physics for Engineers I (2) (ENGR 121L)
- ENGR 121L Intro. Math for Engr. App. I (2) (Math 130)
- EECE 132 Computer Networks I (3)
- ENGR 110 Intro. to Engineering (2)
- MATH 102N Basic Algebra
- MATH 130 Intermediate Algebra
- MATH 150 College Algebra
- MATH 155 Trigonometry
- MATH 162 Calculus I
- MATH 163 Calculus II

**Semester 2**
- ENGR 216 English Comp. I (3) (Eng. 109 / exam)
- ENGR 217/L ENGR 122L Intro. Math for Engr. App. II (2) (Math 130)
- EECE 230 Intro. to Routing & Switching (3)
- IT 250 Intro. to Databases (3)
- ENGL 116 English Composition I
- ENGL 111 Basic English II
- ENGL 116 Technical Writing
- SPCH 130 Public Speaking (3) (Eng 109 / Exam)
- MATH 150 College Algebra
- MATH 155 Trigonometry
- MATH 162 Calculus I
- MATH 163 Calculus II

**Semester 3**
- ENGR 218 Technical Writing (3)
- EECE 105L Microcomp. Systems (3)
- MATH 145 Intro. to Prob. and Stats. (3)
- EECE 231 Intermediate Program. (3)
- ENGR 121L Introductory Math for Engineering Applications I
- EECE/IT/CS/Engr/Math First Year Experience (3)
- SPCH 130 Public Speaking (3) (Eng 109 / Exam)
- MATH 155 Trigonometry
- MATH 162 Calculus I
- MATH 163 Calculus II

**Semester 4**
- ENGR 219 Elective HFA (3)
- EECE 152 Computer Program. (3)
- MATH 145 Intro. to Prob. and Stats. (3)
- IT 350 Database Mgmt (3)
- ENGR 116 English Composition I
- ENGR 111 Basic English II
- ENGR 115 Technical Writing
- SPCH 130 Public Speaking (3) (Eng 109 / Exam)
- MATH 155 Trigonometry
- MATH 162 Calculus I
- MATH 163 Calculus II

**Semester 5**
- MATH 162E Calculus I (4) (Eng 120, Math 155)
- MATH 163E Calculus II (4)
- EECE 330 Computer Networks II (3)
- EECE 355 Math Found. of CS (3)
- EECE/IT/CS/Engr/Math Info. Assurance / Security (3)
- MATH 162 Calculus I
- MATH 163 Calculus II

**Semester 6**
- ENGR 440 Advanced Comp. Net. (3)
- EECE 440 Advanced Comp. Net. (3)
- IT 410 Info. Assurance / Security (3)
- EECE 351 Advanced Programming (3)
- EECE 351 Advanced Programming (3)
- IT 490 Capstone I (3) (Senior Standing)
- EECE/IT/CS/Engr/Math First Year Experience (3)
- MATH 162 Calculus I
- MATH 163 Calculus II

**Semester 7**
- EECE/IT/CS/Engr/Math Elective Upper Division (3)
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**Semester 8**
- EECE/IT/CS/Engr/Math Elective Upper Division (3)
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**MATH SEQUENCE**
- Math 102N Basic Algebra
- Math 130 Intermediate Algebra
- Math 150 College Algebra
- Math 155 Trigonometry
- Math 162 Calculus I
- Math 163 Calculus II

**ENGLISH SEQUENCE**
- Eng 109 Basic English II
- Eng 111 English Composition I
- Eng 116 Technical Writing
- Spch 130 Public Speaking

* ENGR 121L Introductory Math for Engineering Applications I is the pre-requisite of ENGR 215 Physics for Engineers I. Both courses are 8-week long. ENGR 121L is offered during weeks 1-8 of the academic semester, while ENGR 215 is offered during weeks 9-16.