

University of North Dakota
B.S.E.E. with a Computer Science Focus Status Sheet
Includes Minors in both Computer Science and Mathematics

Transferred from _____

Name _____ Advisor _____ Year Started _____

Fall – Year 1

Chem 121	General Chemistry I	3	___	___
Chem 121L	General Chemistry I Lab	1	___	___
CSci 130	Intro to Scientific Programming ¹	4	___	___
EE 101	Intro to EE ²	1	___	___
Engl 110	College Composition I	3	___	___
Math 165	Calculus I	4	___	___
___	Humanities Elective (A&H) ^{3,4}	3	___	___

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Spring – Year 1

CSci 161	Computer Science II	4	___	___
EE 201	Intro to Digital Electronics	2	___	___
EE 202	EE Laboratory	1	___	___
Engr 201	Statics	3	___	___
Math 166	Calculus II	4	___	___
Phys 251/251L	University Physics I	4	___	___

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Fall – Year 2

EE 206	Circuit Analysis	3	___	___
EE 304	Comp. Aided Meas. & Controls	3	___	___
EE 306	Circuits Laboratory I	1	___	___
Math 208	Discrete Mathematics	3	___	___
Math 265	Calculus III	4	___	___
Engl 125	Technical & Business Writing	3	___	___

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Spring – Year 2

CSci 230	Systems Programming	3	___	___
Econ 201	Prin. of Microeconomics (SS) ³	3	___	___
EE 307	Circuits Laboratory II	1	___	___
EE 313	Linear Electric Circuits	3	___	___
Math 266	Elem. Differential Equations	3	___	___
Phys 252/252L	University Physics II	4	___	___

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Fall – Year 3

EE 308	Junior Laboratory I	2	___	___
EE 314	Signals and Systems	3	___	___
EE 316	Electric and Magnetic Fields	3	___	___
EE 318	Engineering Data Analysis	3	___	___
EE 321	Electronics I	3	___	___
EE 451	Comp. Hardware Organization	3	___	___

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Spring – Year 3

EE 309	Junior Laboratory II	2	___	___
EE 405	Control Systems I	3	___	___
EE 409	Distributed Networks	3	___	___
EE 421	Electronics II	3	___	___
EE 452	Embedded Systems	3	___	___
(or) CSci 370	Computer Architecture	___	___	___
___	Social Sciences Elective (SS) ^{3,4}	3	___	___

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Fall – Year 4

CSci	Computer Science Elective ⁷	3	___	___
EE 480	Senior Design I ⁵	3	___	___
EE	EE Elective ⁸	3	___	___
Math	Math Elective ¹¹	3	___	___
___	Engineering Science Elective ⁹	3	___	___
___	Fine Arts Elective (A&H) ^{3,4}	3	___	___

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Spring – Year 4

CSci	Computer Science Elective ⁷	3	___	___
EE 481	Senior Design II ⁶	3	___	___
___	A&H or SS Elective ^{3,4}	3	___	___
___	Ethics Elective (A&H or SS) ^{3,4,10}	3	___	___
___	Technical Elective ^{8,12}	3	___	___

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Total: 138 Credits

- [1] CSci 160 Computer Science I can also be used to satisfy this requirement.
- [2] May be waived for transfer students (substitute science credit required).
- [3] To meet the University's Essential Studies Breadth of Knowledge requirements, all students must complete 9 credits of Arts & Humanities Electives (minimum of 2 departments, including 3 Fine Arts credits and 3 Humanities credits) and 9 credits of Social Sciences Electives (minimum of 2 departments). Refer to the online Academic Catalog for a listing of acceptable Essential Studies courses.
- [4] To meet the University's Essential Studies Social-Cultural Diversity requirements, all students must complete 3 credits of Global (G) Diversity Electives and 3 credits of United States (U) Diversity Electives. Refer to the online Academic Catalog for a listing of acceptable Essential Studies G and U Diversity Electives.
- [5] Senior standing with approval of advisor. EE 480 Senior Design I meets the Essential Studies Special Emphasis requirements for Advanced Communication (A) and Senior Capstone (C).
- [6] EE 481 Senior Design II meets the Essential Studies Special Emphasis requirement for Oral Communication (O).
- [7] Computer Science Elective choices: Any Computer Science course, 300 level or higher. A maximum of three credits of CSci 260 Advanced Programming Languages is permitted.
- [8] Maximum of three credits of EE 490 EE Problems allowed as an independent study, applicable to both EE and Technical Electives.
- [9] Engineering Science Elective choices: Engr 202 Dynamics, Engr 203 Mechanics of Materials, ME 301 Materials Science, ME 306 Fluid Mechanics, and ME 341 Thermodynamics.
- [10] The Ethics Elective is a 3-credit course that meets Essential Studies requirements in either the Arts & Humanities or the Social Sciences. Ethics Elective choices: Phil 370 Ethics in Engineering & Science (A&H, Humanities), ChE 340 The Role of Engineers and Applied Scientists in a Global Society (SS), and ME 370 Engineering Disasters & Ethics (SS).
- [11] Math Elective choices: Math 327 Applied Linear Algebra, Math 461 Numerical Analysis I, and other Math courses 300 level or higher with approval of instructor and advisor.
- [12] Technical Elective choices: Computer Science, Engineering (including EE), Math, and Physics courses approved by advisor, normally 300 level or higher. CSci 260 Advanced Programming Languages is permitted. EE 397 Cooperative Education is only applied toward the Technical Elective with S/U grading, 3 credits max.