

Electrical Engineering University of North Dakota BSEE Status Sheet – Aerospace Focus	Transferred from: Started UND (Sem/Yr):
NAME:	ID #:
ADVISOR:	

Fall - Year 1

ES				Credits	Grade	Sem/Yr
L&Q	Chem	121	General Chemistry I	3		
L&Q	Chem	121L	General Chemistry I Lab	1		
	EE	101	Intro to EE ¹	1		
	Engl	110	College Composition I	3		
	Math	165	Calculus I	4		
			Social Sciences Elective (SS) ^{2,3}	3		
				15		

Spring -Year 1

ES				Credits	Grade	Sem/Yr
EE	201		Intro to Digital Electronics	2		
EE	201L		Digital Electronics Lab	1		
Engl	130		College Composition II	3		
Math	166		Calculus II	4		
Phys	251		University Physics I	4		
			Fine Arts Elective (A&H) ^{2,3}	3		
				17		

Fall - Year 2

EE	206		Circuit Analysis	3		
EE	206L		Circuits Laboratory I	1		
EE	304		Computer Aided Meas & Contr	3		
Math	265		Calculus III	4		
Phys	252		University Physics II	4		
			Humanities Elective (A&H) ^{2,3}	3		
				18		

Spring - Year 2

Avit	102		Introduction to Aviation	5		
EE	313		Linear Electric Circuits	3		
EE	313L		Circuits Laboratory II	1		
Engr	460		Engineering Economics (SS) ²	3		
Math	207		Introduction to Linear Algebra	2		
Math	266		Elem Differential Equations	3		
				17		

Fall - Year 3

Avit	126		Introduction to UAS Operations	2		
EE	314		Signals and Systems	3		
EE	314L		Signals and Systems Lab	1		
EE	316		Electric & Magnetic Fields	3		
EE	318		Engineering Data Analysis	3		
EE	321		Electronics I	3		
EE	321L		Electronics Lab I	1		
			Electrical Engineering Elective ⁷	3		
				19		

Spring - Year 3

Avit	221		Basic Attitude Instrument Flying	3		
EE	405		Control Systems	3		
EE	405L		Control Systems Lab	1		
EE	421		Electronics II	3		
EE	421L		Electronics Lab II	1		
EE	452		Embedded Systems	3		
EE	452L		Embedded Systems Lab	1		
				15		

Fall - Year 4

A&C	EE	480	Senior Design I ⁵	3		
			Avitation Elective ⁹	3		
			Electrical Engineering Elective ⁷	3		
			Non-EE Elective ⁴	3		
			A&H or SS Elective ^{2,3}	3		
				15		

Spring - Year 4

O	EE	481	Senior Design II ⁶	3		
			Avitation Elective ⁹	3		
			Electrical Engineering Elective ⁷	3		
			Ethics Elective (A&H or SS) ^{2,3,8}	3		
				12		

Total Credits: 128

BSEE Status Sheet

1	May be waived for transfer students (substitute science credit required).
2	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.
3	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.
4	Non-EE Elective choices: Engr 101 Statics, Engr 202 Dynamics, Engr 203 Mechanics of Materials, ME 301 Materials Science, ME/CE 306 Fluid Mechanics, and ME 341 Thermodynamics, Computer Science, Engineering (including EE), Math, and Physics courses approved by advisor, normally 300 level or higher. Math 308 History of Math and Math 321 Applied Statistical Methods do not meet the requirement of non-EE elective. CSci 242 Algorithms and Data Structures, CSci 260 Advanced Programming Languages, and Math 208 Discrete Mathematics are permitted.
5	EE 480 Senior Design I meets the Essential Studies Special Emphasis requirements for Advanced Communication (A) and Senior Capstone (C). EE 480 Prerequisites: EE 309 and EE 421 and two out of the four following classes: EE 401, EE 405, EE 409, EE 452.
6	EE 481 Senior Design II meets the Essential Studies Special Emphasis requirement for Oral Communication (O).
7	Maximum of three credits of EE 490 Advanced EE Problems allowed as an independent study, applicable to both EE and non-EEI Electives. 2 credits of EE 397 Cooperative Education (40 hours/week) is equivalent to 3 credits of the EE Electives with S/U grading, maximum 4 credits of EE 397 is equivalent to maximum of 6 credits of EE Elective.
8	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 250 Ethics in Engineering & Science (A&H, Humanities), ChE 340 Professional Integrity in Engineering (SS), and ME 370 Engineering Disasters & Ethics (SS).
9	Total of 6 credit hours of Aviation Electives: Recommended courses are: Avit 250 Human Factors. 2 Credits; Avit 309, Flight Physiology. 3 Credits, Avit 324, Aircraft Systems. 3 Credits, Avit 325, Multi-Engine Systems and Procedures. 2 Credits, Avit 428, Transport Category Aircraft Systems. 4 Credit, or any 300 level and higher from Aviation.

Grade of "C" or better is required in all EE major courses for graduation.

Fall 2017

Minor in Aviation - Professional Flight Take Avit 324 and Avit 325 as electives and the following 16 additional credits

- AtSc 110 Meteorology (4)
- AtSc 231 Aviation Meteorology (4)
- Avit 208 Aviation Safety (3)
- Avit 222 IFR Regulations and Procedures (3)
- Avit 323 Aerodynamics - Airplanes (3)

