

**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 <sup>1</sup>	1		
	Engl	110	College Composition I	3		
	Math	165	Calculus I	4		
			Social Sciences Elective (SS) <sup>2,3</sup>	3		
				<u>15</u>		

**Spring -Year 1**

ES				Credits	Grade	Sem/Yr
	Avit	102	Introduction to Aviation	5		
	EE	201	Intro to Digital Electronics	2		
	EE	202	EE Laboratory	1		
	Math	166	Calculus II	4		
	Phys	251/251L	University Physics I/Lab	4		
			Humanities Elective (A&H) <sup>2,3</sup>	3		
				<u>19</u>		

**Fall - Year 2**

	Avit	221	Basic Attitude Instr Flying	3		
	EE	206	Circuit Analysis	3		
	EE	304	Computer Aided Meas & Contr	3		
	EE	306	Circuits Laboratory I	1		
	Math	265	Calculus III	4		
	Phys	252/252L	University Physics II/Lab	4		
				<u>18</u>		

**Spring - Year 2**

	Avit	323	Aerodynamics-Airplanes	3		
	Avit	324	Aircraft Systems	3		
	EE	307	Circuits Laboratory II	1		
	EE	313	Linear Electric Circuits	3		
	Engl	130	College Composition II	3		
	Engr	201	Statics	3		
	Math	266	Elem Differential Equations	3		
				<u>19</u>		

**Fall - Year 3**

	EE	308	Junior Laboratory I	2		
	EE	314	Signals and Systems	3		
	EE	316	Electric & Magnetic Fields	3		
	EE	318	Engineering Data Analysis	3		
	EE	321	Electronics I	3		
	Engr	460	Engineering Economics (SS) <sup>2,3</sup>	3		
				<u>17</u>		

**Spring - Year 3**

	EE	309	Junior Laboratory II	2		
	EE	401	Electric Drives	3		
	EE	405	Control Systems	3		
	EE	409	Distributed Networks	3		
	EE	421	Electronics II	3		
	EE	452	Embedded Systems	3		
				<u>17</u>		

**Fall - Year 4**

A&C	EE	480	Senior Design I <sup>4</sup>	3		
			Electrical Engineering Elective <sup>7</sup>	3		
	Math	207	Introduction to Linear Algebra	2		
	ME	341	Thermodynamics	3		
			Basic or Applied Science Elective <sup>6</sup>	3		
			Fine Arts Elective (A&H) <sup>2,3</sup>	3		
				<u>17</u>		

**Spring - Year 4**

O	EE	481	Senior Design II <sup>5</sup>	3		
			Electrical Engineering Elective <sup>7</sup>	3		
	ME	306	Fluid Mechanics	3		
			A&H or SS Elective <sup>2,3</sup>	3		
			Ethics Elective (A&H or SS) <sup>2,3,8</sup>	3		
				<u>15</u>		

**Total Credits: 137**

## MSEE Status Sheet - Aerospace Focus

<b>Minor in Aviation - Professional Flight aviation credits from the BSEE program plus the following 16 additional credits)</b>	<b>(14</b>
AtSc 110 Meteorology (4)	
AtSc 231 Aviation Meteorology (4)	
Avit 208 Aviation Safety (3)	
Avit 222 IFR Regulations and Procedures (3)	
Avit 325 Multi-Engine Systems and Procedures (2)	
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 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).	
5 EE 481 Senior Design II meets the Essential Studies Special Emphasis requirement for Oral Communication (O).	
6 Basic or Applied Science Elective choices: Avit 421 Advanced Aerodynamics, Chem 122/122L General Chemistry II, Phys 253/253L University Physics III, SpSt 500 Introduction to Orbital Mechanics, and Physics courses 300 level or higher with approval of instructor and advisor. Three or four credits, depending on whether the class has a corequisite laboratory.	
7 Maximum of three credits of EE 490 Advanced EE Problems allowed as an independent study, applicable to both EE and Technical Electives.	
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 The Role of Engineers and Applied Scientists in a Global Society (SS), and ME 370 Engineering Disasters & Ethics (SS).	