

OEN DNIMAS CURRICULUM

First Year

Course Number	Course Name	Credit Hours	
		1st	2nd
APS 100	Applies Science Seminar	0	
APS 111	Applies Science Seminar	0	
EEE 100	Introduction to Engineering	3	
ENG 101H	College English I	3	
SEM 101	Spartan Seminar	1	
MTH 184H	Calculus I	4	
CHM 223	General Chemistry	4	
CHM 221L	General Chemistry Lab	1	
EEE 102	Engineering use of Computers		3
SEM 102	Spartan Seminar		1
EEE101	Engineering Problem Solving		2
ENG 102H	College English II		3
PED 100	Fundamentals of Fitness for Life		1
EEE 211	Material Scienece and Engineering		3
	Social Science (Tier 2)		3
Total:	Semester: (Credit Hours)	16	16
	Credit Hours		32

Second Year

Course Number	Course Name	Credit Hours	
		1st	2nd
APS 210	Applied Sciences Seminiar	0	
APS 211	Applied Sciences Seminiar	0	
SEM 201	Spartan Seminar	1	
HED 100	Personal and Community Health	2	
MTH 251H	Calculus II	4	
PHY 160	University Physics I	4	
PHY 160L	University Physics I Laboratory	1	
ENG 285H	Public Speaking	3	
	Humanities (Tier 2)	3	
MTH 252	Calculus III		4
PHY 161	University Physics II		4
PHY 161L	University Physics II Laboratory		1
OEN 200	Geometric and Instrumentation Optics		3
OEN 200L	Geometric and Instrumentation Optics Laboratory		1
OEN 290	Optical Engineering Seminar I		1
	Cultural Social Science (Tier 3)		3
Total:	Semester: (Credit Hours)	18	17
	Credit Hours		35

Third Year

Course Number	Course Name	Credit Hours	
		1st	2nd
	Cultural Humanities	3	
APS 310	Applied Sciences seminar	0	
APS 311	Applied Sciences seminar	0	
OEN 201	Physical and Instrumentation Optics	3	
OEN 201L	Physical and Instrumentation Optics Laboratory	1	
OEN 360	Introduction to Optical Materials	3	
EEE 201	Electrical Network Theory	3	
EEE 201L	Electrical Network Theory Laboratory	1	
MTH 372	Differential Equations	3	
MTH 300	Linear Algebra		3
EEE 203	Electronic Principles		3
EEE 311	Engineering Economics		3
OEN 320	Optical Systems Analysis		3
OEN 340	Lasers and Photonics		3
OEN 340L	Lasers and Photonics Laboratory		1
OEN 390	Optical Engineering Seminar II		1
Total:	Semester: (Credit Hours)	17	17
	Credit Hours		34

Fourth Year

Course Number	Course Name	Credit Hours	
		1st	2nd
APS 410	Applied Sciences seminar	0	
APS 411	Applied Sciences seminar	0	
OEN 460	Optical Communications I	3	
OEN 460L	Optical Communications I Laboratory	1	
OEN 490	Senior Seminar	1	
OEN 498	Senior Project I	3	
	Engineering Restrictive Elective	3	
OEN 380	Introduction to Quantum Optics	3	
OEN 499	Senior Project II		3
EEE 321	Electromagnetic Field Theory		3
	Engineering Restrictive Elective		3
	Technical Elective		3
MTH 351	Probability and Statistics I		3
Total:	Semester: (Credit Hours)	14	15
	Credit Hours		29

Total Credits Required: 130