

BACHELOR OF SCIENCE IN OPTICAL ENGINEERING - (DNIMAS) TRACK

Summary of Graduation Requirements

Subject Area	Credits
General Education Core (https://catalog.nsu.edu/undergraduate/academic-information/general-education-core-program/)	40
Major Requirements	54
Electives	24
Other Requirements	15
Total Credit Hours	133

Curriculum

First Year		Credits
APS 110	Applied Science Seminar	0
APS 111	Appli Sci Seminar	0
EEN 100	Intro Elec Eng'rng	3
EEN 102	Eng Use Computers	3
ENG 101H	Honors College English I	3
ENG 102H	Honors College English II	3
MTH 184H	Honors Calculus I	4
MTH 251H	Honors Calculus II	4
PED 100	Fundamentals of Fitness for Life	1
PHY 160	University Physics I	4
PHY 160L	University Physics Laboratory I	1
PHY 161	University Physics II	4
PHY 161L	University Physics Laboratory II	1
SEM 101 & SEM 102	Spartan Seminar 101 and Spartan Seminar 102	2
Credits		33
Second Year		Credits
APS 210	Applied Science Seminar	0
APS 211	Appli Sci Seminar	0
CHM 221L	General Chemistry I Laboratory	1
CHM 223A	General Chemistry I	4
EEE 201	Electrical Network Theory I	3
XXX XXXL	Electrical Network Laboratory	1
EEE 203	Electronic Principles	3
EEN 211	Material Science & Engineering	3
HED 100	Personal and Community Health	2
MTH 252	Calculus III	4
MTH 372	Differential Equations	3
OEN 200	Geometric & Instr Optics	3
OEN 200L	Geometric & Instr Optics Lab	1
OEN 201	Geo & Inst Optics II	3
OEN 201L	Physical and Instrumental Optics Lab	1
ENG 285H	Honors Public Speaking	3

SEM 201	Spartan Seminar 201	1
Credits		36
Third Year		Credits
APS 310	Applied Science Seminar	0
APS 311	Appli Sci Seminar	0
EEN 321	Electromagnetic Field Theory	3
MTH 300	Linear Algebra	3
MTH 351	Probability & Statistics I	3
OEN 320	Optical Systems Analysis	3
OEN 340	Lasers and Photonics	3
OEN 340L	Laser and Photonics Lab	1
OEN 360	Introduction to Optical Materials	3
OEN 380	Introduction to Quantum Optics	3
XXX XXX	Cultural Elective	3
XXX XXX	Humanities Elective	3
XXX XXX	Social Sciences Elective	3
Credits		31
Fourth Year		Credits
APS 410	Applied Science Seminar	0
APS 411	Appli Sci Seminar	0
EEN 311	Engrng Elect Lab I	3
OEN 460	Optical Communications I	3
OEN 460L	Optical Communication I Laboratory	1
OEN 461	Optical Communications II	3
OEN 461L	Optical Communications II Laboratory	1
OEN 490	Sr Seminar	1
OEN 498	Sr Project I	3
OEN 499	Sr Project II	3
XXX XXX	Engineering Elective	3
XXX XXX	Humanities Elective	3
XXX XXX	Social Sciences Elective	3
XXX XXX	Technical Elective	3
XXX XXX	Unrestrictive Elective	3
Credits		33
Total Credits		133

The Technical Elective may be chosen from 300 level or above courses in math, computer science, chemistry, physics or engineering.