

OPTICAL ENGINEERING

Eligibility: Students in any degree program, except Optical Engineering.

Requirements

Code	Title	Hours
Required Courses		
OE 280	Geometrical Optics	4
PH 292	Physical Optics	4
OE 295	Photonic Devices and Systems	4
Select two of the following:		8
OE 360	Optical Materials	
OE 392	Linear Optical Systems	
OE 393	Fiber Optics and Applications	
OE 395	Optomechanics & Optical Engineering Lab	
OE 434	Non-Imaging Optics	
OE 435	Biomedical Optics	
OE 437	Introduction to Image Processing	
OE 450	Laser Systems & Applications	
OE 470	Special Topics in Optical Engineering	
OE 480	Optical System Design	
OE 493	Fundamentals of Optical Fiber Communications	
OE 495	Optical Metrology	
Total Hours		20

Also see Certificate Program in Semiconductor Materials and Devices
(<https://catalog.rose-hulman.edu/catalog/minors-certificates/semiconductor-mtl-dev-cert-certificate/>)

Code	Title	Hours
Required Courses		
OE 280	Geometrical Optics	4
PH 292	Physical Optics	4
OE 295	Photonic Devices and Systems	4
Select at least two courses from one of the areas listed below:		8
Lens Design Area:		
OE 360	Optical Materials	
OE 415	Optical Engineering Design I	
OE 480	Optical System Design	
OE 490	Directed Research (4 Credits Only)	
Photonics/Electro-optics Area:		
OE 360	Optical Materials	
OE 415	Optical Engineering Design I	
OE 450	Laser Systems & Applications	
OE 490	Directed Research (4 Credits Only)	
OE 493	Fundamentals of Optical Fiber Communications	
Image Processing Area:		
OE 360	Optical Materials	
OE 415	Optical Engineering Design I	
OE 490	Directed Research	
OE 437/ ECE 480	Introduction to Image Processing	
Total Hours		20