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**