

## Optical Science and Engineering PhD Plan of Study - Spring Start

### *Firs Semester (Spring)*

Course		Type	Credits	Important Notes
OPTI8103	Light Sources & Detectors	Core course	3	- Passing 18 out of 24 Core credits with B or better is required
OPTI8104	Electromagnetic Waves	Core course	3	
OPTI8106	Principles of Physical Optics	Core course	3	
OPTI8106L	Physical Optics Lab	Core course	2	
OPTI8611	Graduate Colloquium	Yearly Program requirement	1	
<b>Total</b>			<b>12</b>	

### *Second Semester (Fall)*

Course		Type	Credits	Important Notes
OPTI8101	Mathematical Methods for Opt. Sc. & Engr.	Core course	3	- Passing 18 out of 24 Core credits with B or better is required
OPTI8102	Principles of Geometrical Optics	Core course	3	
OPTI8102L	Geometrical Optics Lab	Core course	3	
OPTI8105	Optical Properties of Materials	Core course	1	
OPTI8610	Graduate Seminar	Program requirement	1	
GRAD8990	Academic Integrity	Grad School requirement	0	
<b>Total</b>			<b>11</b>	

### *Third Semester (Spring)*

Course		Type	Credits	Important Notes
	Doctoral Qualifier Examination	Program requirement		- Doctoral Qualifier Examination - Select Dissertation Advisor - File Plan of Study
OPTI8206	Physical Optics Design & Simulation	OPTI elective	3	
OPTI8371	Solid State Materials	OPTI elective	3	
OPTI8XXX	Elective offered or Dissertation Research	OPTI elective/Program requirement	3	
<b>Total</b>			<b>9</b>	

**Fourth Semester (Fall)**

Course		Type	Credits	Important Notes
	Doctoral Qualifier Examination	Program requirement		- Doctoral Qualifier Examination (retake if necessary)
OPTI8107	Responsible Conduct of Research	Grad School requirement	2	
OPTI8241	Optical System Function & Design	OPTI elective	3	
OPTI8611	Graduate Colloquium	Yearly Program requirement	1	
	Elective	Additional Elective	3	

**Total 9****Fifth Semester (Spring)**

Course		Type	Credits	Important Notes
OPTI8991	Dissertation Research	Program requirement	8	- Form Dissertation Committee - Write Dissertation Proposal
OPTI8611	Graduate Colloquium	Program requirement	1	- Multiple sections of Dissertation Research may be required

**Total 9****Sixth Semester (Fall)**

Course		Type	Credits	Important Notes
OPTI8XXX	Elective(s) or Dissertation Research	OPTI elective/Program requirement	6	- Dissertation Proposal Defense - Multiple sections of Dissertation Research may be required
OPTI8XXX	Elective offered or Dissertation Research	OPTI elective/Program requirement	3	

**Total 9****Seventh Semester (Spring)**

Course		Type	Credits	Important Notes
OPTI8991	Dissertation Research	Program requirement	8	
OPTI8611	Graduate Colloquium	Program requirement	1	

**Total 9****Eighth Semester (Fall)**

Course		Type	Credits	Important Notes
OPTI8991	Dissertation Research	Program requirement	9	- OPTI8991 multiple sections may be required - Minimum of 24 credits of OPTI8991 are required

**Total 9**

***Ninth Semester (Spring)***

<b>Course</b>		<b>Type</b>	<b>Credits</b>	<b>Important Notes</b>
GRAD9800	Dissertation Enrollment (9 credit equiv.)	Program requirement	3	- Finalize Dissertation

**Total 3*****Tenth Semester (Fall)***

<b>Course</b>		<b>Type</b>	<b>Credits</b>	<b>Important Notes</b>
OPT19800	Dissertation Enrollment (9 credit equiv.)	Program requirement	3	- Dissertation Defense - Application for Degree Award

**Total 3**