

April 1999

School of Optics
Director: Dr. M. J. Soileau
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Program Name & Code: Ph.D. in Optics – 14.1005 Level: Graduate

Unit Mission	Program Intended Outcome/Objective	Assessment Criteria & Procedures	Assessment Results / Comments	Use of Results
<p>To attain prominence in optics, photonic, laser science and engineering graduate education and research</p>	<p>1. Graduate will be able to demonstrate a solid foundation in the principles of optics, photonics, laser science and engineering.</p>	<p>1.1 At least 75% of the students will demonstrate their competence through passing, in their first attempt, a written and oral qualifying examination by an examination committee of at least five faculty members.</p> <p>1.2 At least 90% of the option students will pass the candidacy exam, in their first attempt, administered by the dissertation examination committee</p>	<p>1.1 70% of the students passed the qualifying exam on their first attempt and 20% passed the exam in two attempts.</p> <p>1.2 All of the students passed the candidacy exam on their first attempt.</p> <p>1.3 All students passed the individual components of the optics core.</p>	<p>1. The optical engineering content of the core has been enhanced and graduate laboratory courses are now required</p>
	<p>2. Graduates will acquire professional competence in optical science and engineering enabling them to conduct high quality research in industrial and academic environments.</p>	<p>2.1 At least 90% of graduates will be professionally employed in their chosen field within 6 months of graduation.</p> <p>2.2 At least 75% of graduates who seek academic positions will accept an academic position within one year of graduation.</p> <p>Utilize information from direct contact with graduates.</p>	<p>2.1 All graduates are currently employed by academia, industry or government.</p> <p>2.2 All graduates who sought careers in academia accepted academic positions</p>	<p>2. Criteria met. No change proposed at this time. The continued expansion in the economy has resulted in very favorable employment conditions</p>

	<p>3. Graduates will be able to conduct original independent research and communicate the results of their research in a professional forum.</p>	<p>3.1 Each graduate will publish a refereed journal article based on his or her Ph.D. research within one year of graduation.</p> <p>3.2 All graduates must demonstrate ability to conduct independent research and professional communication to an examining committee of at least 5 faculty members in the discipline.</p>	<p>3.1 All graduates published at least one refereed journal paper and made at least one technical presentation in a regional or national professional conference.</p> <p>3.2 The examining committee found all students to be able to conduct original research.</p>	<p>3. Criteria met. No change is proposed at this time.</p>
	<p>4. Graduates of our program should be considered to be of the same caliber as graduates from peer institutions offering similar programs</p>	<p>4.1 At least 33% of offers for fellowships to top US citizen and permanent resident applicants will be accepted.</p> <p>4.2 Additional measures:</p> <p>a. Employment offers and starting salary per graduate.</p> <p>b. Number of direct inquiries from potential employers and employment agencies.</p> <p>c. Number of recruiting visits by potential employers</p> <p>d. Number of inquiries from potential graduate students</p> <p>Utilize information from direct contact with graduates and from data base for industrial interaction</p>	<p>4.1 40% of Fellowships that were offered to top US citizens were accepted.</p> <p>4.2.a Graduates received very competitive offers and accepted employment in their chosen field prior to graduation</p> <p>4.2.b At least 50 inquiries are typically received from potential employers per year. Many are currently employing our graduates.</p> <p>4.2.c At least ten in-house recruiting visits by potential employers</p> <p>4.2.d All least 200 inquiries are received from potential students per year.</p>	<p>4. Criteria met. No change is proposed at this time. The qualitative perception of our graduates by the optics community out graduates will be included when the number of our graduates is large for meaningful assessment.</p>