

**Institutional Effectiveness Summary for Academic Program**

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**Department Name:** School of Optics  
**Program Name & Code:** ~~MS Optics~~ - 14.1005  
**Level:** Graduate

Unit Mission	Program Intended Outcome/Objective	Assessment Criteria & Procedures	Assessment Results / Comments	Use of Results
To provide the highest quality optics, photonics, and laser science and engineering graduate education and research	1. Graduate will be able to demonstrate a solid foundation in the principles of optics, photonics, and laser science and engineering.  2. Graduates will acquire professional competence in optics, photonics, and laser science and engineering preparing them for employment in their chosen field or graduate school.	1. a 100% of the students in the non-thesis option will demonstrate their competence by passing an exit comprehensive written exam.  1. b at least 90% of the thesis option students will pass the oral exam component of the thesis defense administered by the thesis examination committee  2. At least 90% of graduates who seek employment in their chosen field within 6 months of graduation.  Utilize information from direct contact with graduate	1. a 100% of the non-thesis-option students passed the overall comprehensive exam in their first attempt.  1. b 100% of the thesis-option students passed the fundamental part of the oral thesis defense in their first attempt.  1. c All students passed the individual components of the optical science and engineering core.  2. a All graduates are either enrolled in a Ph.D. program or employed in industry or government.  2. b Graduates expressed preference in a more applied research program.	1. The content of the core courses has been revised to enhance the optical engineering content and require hands-on laboratory courses.  2. A certificate program is being developed.
3. Graduates will be admitted to graduate programs in established research institutions.		3. a At least 80% of graduates who are seeking graduate education will be enrolled in graduate schools upon graduation.  3. b At least 80% of graduates admitted to graduate schools will receive full scholarships or research/teaching assistantships.	3. a All graduates who are seeking graduate education are currently enrolled in a Ph.D. program receiving graduate research assistantships.  3. b All graduates enrolled in graduate schools are receiving graduate research assistantships.	3. Criteria met. No change is proposed at this time. However, we will make distinction between students who decide to continue at UCF and those who decide to attend other institutions.

			<p>4. Students completing the MS thesis option will be able to conduct independent research and communicate the results of their research in a professional forum.</p>	<p>Utilize information from direct contact with graduate</p> <p>4. a At least 50% of the thesis-option graduates will publish a refereed journal article or proceeding paper based on their MS research within one year of graduation.</p> <p>4. b All thesis option graduates must demonstrate ability to conduct independent research to an examining committee of at least 4 faculty members in the discipline.</p>	<p>4. a 75% of the graduates published at least one journal/proceeding paper and made at least one technical presentation in a regional or national professional conference.</p> <p>4. b All students were found by the examining committee to be able to conduct MS level research.</p>	<p>4. Criteria met. No change is proposed at this time.</p>
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