

NTID
Applied Optical Technology Program Outcomes Assessment
Plan and Report for AY 2007-2008

Program Goal: Students develop job-entry applied optical skills in the Precision Optics/Ophthalmic areas. Graduates will have a broad knowledge of and skills in the manufacturing of optical elements/lenses, applications, and procedures. Technical job opportunities include optical technicians (fabricators/esters/assemblers/CNC operators), and ophthalmic service providers.

Critical Outcomes for all Students		Assessment of Outcomes		Timeline		Results	
Domain/Task/Capability	Performance Criteria/Benchmarks	Instrument/Opportunity	Assessment of Performance	Develop	Collect	Summarization of Results	Use of Results
1. Technical	Students will apply basic optical principles used in the conventional manufacturing of precision optical elements and ophthalmic lenses.	Prepare precision optics elements and ophthalmic lenses using conventional manufacturing tools through a demonstration test for Application of Lens Surfacing.	Given optical elements to be prepared using conventional production principles for producing precision elements or ophthalmic lenses, 80% of the students will accurately complete a work order.	20062	20072	* See Comments below.	* See Comments below.
2. Technical	Students will apply basic measurement principles to test the surface quality of optical elements.	Analyze and inspect optical elements or ophthalmic lenses according to engineering data and drawings or by filling an ophthalmic lens prescription through a demonstration test for Optical Processing II.	Given optical materials to be prepared according to engineering data and drawings or by filling an ophthalmic lens prescription, 80% of the students will accurately complete a work order or prescription.	20062	20081	* See Comments below.	* See Comments below.
3. Technical	Students will be able to produce and determine surface	Prepare precision optics elements using conventional	Given optical materials and engineering specifications 80% of students	20062	20081	This course will exist in the new CIMT curriculum mask.	* See Comments below.

	quality of simple plano, convex and concave spherical surfaces (elements) according to engineering specifications.	manufacturing tools through a demonstration test for Precision Optics Manufacturing II.	will be able to produce flat and spherical surfaces and determine surface quality based on industry standards.				
4. Job Skills	Students will demonstrate problem-solving, decision-making, responsibility, pride in self and work performance, and other learned behaviors and attitudes necessary for entering the work force and being self-sufficient.	Co-op Supervisor Evaluation Form	Score of 3 or higher on RIT Supervisor On-line Co-op Evaluation system, sections "Interaction in the Work Environment," "Quality of Work," and Communication and Literacy Skills."	20052	20064	**See comment below.	**See comment below.
5. Co-op Work Experience	Students will demonstrate technical competency on the job in precision optics or ophthalmic industries which will allow them access to participation within our global society.	Co-op Supervisor Evaluation Form	Score of 3 or higher on RIT On-line Co-op Evaluation system, overall student job performance question.	20052	20064	For students in the Engineering Studies Department the mean rating by co-op supervisors who completed the evaluation online was 4.0 (N=15) during the four quarters 20064-20073.	For students in the Engineering Studies Department, the mean ratings exceeded all performance expectations during the four quarters 20064-20073.
6. Job Placement	Students will gain entry-level employment in the optics field.	NCE	90% of graduates will be employed in the field of precision optics or ophthalmic industries.	20062	20072	For AY 2005-2006 n=2; 100% of students seeking employment were working	Met expectations and no action needed.

7. Student Satisfaction	Graduating students will indicate satisfaction with program and courses.	Survey	85% of students will rate all aspects of the program and courses as satisfactory or above.	2002	20071	* See Comments below.	* See Comments below.
Alumni Satisfaction	Alumni will indicate satisfaction with the instruction they received at NTID/RIT	Alumni Survey	80% of Alumni will rate their NTID/RIT experience as Good or Excellent (5-point scale) for the instruction they received.	AY 2007-2008	AY 2007-2008	For Engineering Studies Department AOS & AAS alumni who graduated from 2001-2006 and responded to the 2007 alumni survey, N=12; 91.7% indicated satisfaction.	Met expectations and no action needed.

Comments:

* Applied Optical Technology program is schedule for program elimination; however, will become a precision fabrication option within Computer Integration Machining Technology (CIMT) program starting in AY2008-2009. The first group of students potentially will enter in 20092.

** The first group potentially will have their coop in 20094.

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