NTID
Ophthalmic Optical Finishing Program Outcomes Assessment
Plan and Report for AY 2005-2006*

Program Goal: To provide graduates with entry level skills specifically related to occupations in the ophthalmic laboratory field.

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. Prescription Analysis (technical)	a. Students will be able to completely fill out all of the various categories of an ophthalmic lens prescription. b. Students will be able to identify and edit inconsistencies of ophthalmic lens prescriptions.	a–b. To occur through a comprehensive written exam at the end of 0827-115 Prescription Analysis	a. Given a blank laboratory work form, an eye Dr's. prescription, appropriate patient measurements and eyeglass frame specifications, **(85% of)** the students will accurately complete a work order. b. Given a complete lab work order, **(85% of)** the students will be able to identify and correct all errors appearing on the form.	a-b. Fall 20021	Fall 20031		
2. Lens Surfacing (technical)	a. Students will be able to enter all prescription specifications into a database and produce an accurate printout of production coordinates. b. Students will be able to surface (grind & polish) single vision and multifocal lens curves to produce a given power using a variety of surfacing instrumentation.	-b. To occur through a comprehensive written exam and series of lab practical tests at the end of 0827-280 Application to Lens Surfacing	a. Given an eye doctor's prescription and job specifications, **(85% of)** the students will be able to determine the curves needed to produce a specified lens power by applying Vogel's formula and enter this information into a database. b. Given the results of computer generated coordinates, access to a lens blocking system, generator and toric polishing equipment, **(85% of)** the students will be able to confirm the accuracy of	a-b. Winter 20022	a-b. Winter 20022 Winter 20023		

			computer coordinates, grind lens curvature, and fine and polish lenses to within + or - 0.12 diopter tolerances.				
3. Lens Finishing (technical)	a. Students will be able to analyze, neutralize lens power and layout single vision and multifocal prescriptions. b. Students will be able to automatically edge and hand bevel lenses to fit given frames. c. Students will be able to properly heat temper glass lenses in accordance with ANSI standards. d. Students will be able to apply cosmetic and therapeutic features designed to enhance lens performance.	a-e. To occur through a series of written tests and hands-on practical tests at the end of 0827-121 & 225 Lab Simulation I & II	a. Given the frame, prescription specifications and uncut lenses of various powers and axis orientation, **(85% of)** all students will be able to determine the lens power, identify the lens major reference point, identify the180 degree cutting line, calculate decentration, and accurately "block" a lens using the Vertometer/Lensometer and AIT Speede blocking system. b. Given a blocked lens and frame, **(85% of)** the students will cut (edge) lenses to proper size and shape, and manually produce a proper vee and safety bevel using specified instrumentation. c. Given photochromic, clear, soflite, G-15 and G-31 lenses and access to standard instrumentation, **(85% of)** the students will be able to temper and test the impact resistance of lenses in accordance with industry standards. d. Given untreated plastic lenses, access to a lens tinting unit and spectrometer, **(85% of)** the students will accurately tint lenses to within + or – 5 % of the specified visual light transmission or within 3% of the UV	a-e. Winter 20022 & Spring 20023	Spring	20033	

			light spectrum.				
Job Placement	Students will gain entry-level employment in OFT field.	NCE	_____% of graduates will be employed in the field.	TBD			
Student Satisfaction	Graduating students will indicate satisfaction with program courses.	Student Satisfaction Survey	___% of students will rate program courses as satisfactory better as measured by a score of _____ or above in Student Satisfaction Survey.	Spring 20023	Fall 20031		
Co-op Work Experience	Students will demonstrate technical competency on the job	Co-op Supervisor Evaluation Form	Score of _____ or higher on Co-op Supervisor Evaluation Form of job performance items #_____, _____, _____, _____.	Spring 20023	Fall 20031		

Comments:
*The curriculum for this program of study was modified during AY 2004-05 and 2005-06 and a new Outcomes Assessment Plan was written. Data for the new plan will be collected and reported for students who enter the modified program beginning AY 2006-07. The modified program is named Applied Optical Technology.

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