



**ROCHESTER INSTITUTE OF TECHNOLOGY  
COURSE OUTLINE FORM**

**COLLEGE OF SCIENCE**

Chester F. Carlson Center for Imaging Science

REVISED COURSE: COS-IMGS-606- Graduate Seminar I

**1.0 Course Approvals**

<b>Required course approvals:</b>	<b>Approval request date:</b>	<b>Approval granted date:</b>
Academic Unit Curriculum Committee	9/20/2010	9/27/2010
College Curriculum Committee	9/30/2010	10/7/2010

<b>Optional designations:</b>	<b>Is designation desired?</b>	<b>*Approval request date:</b>	<b>**Approval granted date:</b>
General Education:	No		
Writing Intensive:	No		
Honors	No		

**2.0 Course information:**

<b>Course title:</b>	Graduate Seminar I
<b>Credit hours:</b>	1
<b>Prerequisite(s):</b>	Graduate standing in Imaging Science
<b>Co-requisite(s):</b>	
<b>Course proposed by:</b>	John Kerekes
<b>Effective date:</b>	September 2013

	<b>Contact hours</b>	<b>Maximum students/section</b>
Classroom	1	50
Lab		
Studio		
Other (specify)		

**2.1 Course Conversion Designation (Please check which applies to this course)**

	Semester Equivalent (SE) Please indicate which quarter course it is equivalent to:
X	Semester Replacement (SR) Please indicate the quarter course(s) this course is replacing: 1051-706, 1051-707
	New

**2.2 Semester(s) offered (check)**

Fall <input checked="" type="checkbox"/>	Spring <input type="checkbox"/>	Summer <input type="checkbox"/>	Other <input type="checkbox"/>
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All courses must be offered at least once every 2 years. If course will be offered on a bi-annual basis, please indicate here:

### 2.3 Student Requirements

**Students required to take this course:** Students pursuing an MS or PhD in Imaging Science

**Students who might elect to take the course:** None.

### 3.0 Goals of the course (including rationale for the course, when appropriate):

This course introduces first-year imaging graduate students to graduate study in the Carlson Center for Imaging Science. It provides 1 credit hour toward research credit requirements.

### 4.0 Course description (as it will appear in the RIT Catalog, including pre- and co-requisites, and quarters offered). Please use the following format:

**Course number:**

**Name of Course**

Description as you want it to appear in the catalog. (Pre or co-requisites)

**Class X, Lab X, Credit X (Semester offered)**

**COS-IMGS-606**

**Graduate Seminar I**

This course is focused on familiarizing students with research activities in the Carlson Center, research practices in the university, research environment and policies and procedures impacting graduate students. The course is coupled with the research seminar sponsored by the Center for Imaging Science (usually weekly presentations). Students are expected to attend and participate in the seminar as part of the course. The course also addresses issues and practices associated with technical presentation and technical writing. Credits earned in this course apply to research requirements. (Graduate standing in imaging science) **Class 1, Credit 1 (F)**

### 5.0 Possible resources (texts, references, computer packages, etc.)

5.1 Snieder, R. and K. Lerner, "The Art of Being a Scientist," Cambridge University Press, Cambridge, UK.

### 6.0 Topics (outline):

- 6.1 Introduction to Carlson Center for Imaging Science graduate study
- 6.2 Computing resources in CIS
- 6.3 Resources at the Wallace Library
- 6.4 Intellectual property issues
- 6.5 Research ethics
- 6.6 Writing a research proposal
- 6.7 Presentations by research groups within CIS

**7.0 Intended course learning outcomes and associated assessment methods of those outcomes**

Course Learning Outcome	Assessment
Write a research proposal	Written technical report

**8.0 Program outcomes and/or goals supported by this course**

8.1 Equipping new graduate students with tools and resources to successfully complete their graduate study and prepare them for an academic or professional career in Imaging Science.
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9.0

	<b>General Education Learning Outcome Supported by the Course</b>	<b>Assessment Method</b>
<b><i>Communication</i></b>		
	Express themselves effectively in common college-level written forms using standard American English	
	Revise and improve written and visual content	
	Express themselves effectively in presentations, either in spoken standard American English or sign language (American Sign Language or English-based Signing)	
	Comprehend information accessed through reading and discussion	
<b><i>Intellectual Inquiry</i></b>		
	Review, assess, and draw conclusions about hypotheses and theories	
	Analyze arguments, in relation to their premises, assumptions, contexts, and conclusions	
	Construct logical and reasonable arguments that include anticipation of counterarguments	
	Use relevant evidence gathered through accepted scholarly methods and properly acknowledge sources of information	
<b><i>Ethical, Social and Global Awareness</i></b>		
	Analyze similarities and differences in human experiences and consequent perspectives	
	Examine connections among the world's populations	
	Identify contemporary ethical questions and relevant stakeholder positions	
<b><i>Scientific, Mathematical and Technological Literacy</i></b>		
	Explain basic principles and concepts of one of the natural sciences	
	Apply methods of scientific inquiry and problem solving to contemporary issues	
	Comprehend and evaluate mathematical and statistical information	
	Perform college-level mathematical operations on quantitative data	
	Describe the potential and the limitations of technology	
	Use appropriate technology to achieve desired outcomes	
<b><i>Creativity, Innovation and Artistic Literacy</i></b>		
	Demonstrate creative/innovative approaches to course-based assignments or projects	
	Interpret and evaluate artistic expression considering the cultural context in which it was created	

**10.0 Other relevant information** (such as special classroom, studio, or lab needs, special scheduling, media requirements, etc.)

Smart Classroom.

# **Programform.doc**

## **NYSED Documentation Form**

### **Audience**

This document is intended for all department chairs and program directors.

### **Summary**

This document includes the information and required forms for submission of program to NYSED for semester conversion.

### **Change Log**

<b>Responsible</b>	<b>Date</b>	<b>Version</b>	<b>Short description</b>
John Kerekes	8/7/2010	1	Document originator