



**ROCHESTER INSTITUTE OF TECHNOLOGY
COURSE OUTLINE FORM**

COLLEGE OF SCIENCE

Chester F. Carlson Center for Imaging Science

NEW COURSE: COS-IMGS-790 – Research & Thesis

1.0 Course Designations and Approvals

Required course approvals:	Approval request date:	Approval granted date:
Academic Unit Curriculum Committee	9/22/11	9/23/11
College Curriculum Committee	9/26/11	10/4/11

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

2.0 Course information:

Course title:	Research & Thesis
Credit hours:	Variable
Prerequisite(s):	Permission of instructor
Co-requisite(s):	None
Course proposed by:	Chester F. Carlson Center for Imaging Science
Effective date:	Fall 2013

	Contact hours	Maximum students/section
Classroom		
Lab		
Studio		
Other (specify)	Variable	

2.a Course Conversion Designation* (Please check which applies to this course).**

*For more information on Course Conversion Designations please see page four.

X	Semester Equivalent (SE) Please indicate which quarter course it is equivalent to: 1051-890
	Semester Replacement (SR) Please indicate the quarter course(s) this course is replacing:
	New

2.b Semester(s) offered (check)

Fall	X	Spring	X	Summer	X	Other
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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.c Student Requirements

Students required to take this course: (by program and year, as appropriate) MS students in the imaging science program
Students who might elect to take the course: None

In the sections that follow, please use sub-numbering as appropriate (eg. 3.1, 3.2, etc.)

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

3.1 To conduct independent research

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:

COS-IMGS-790	Research & Thesis
Masters-level research by the candidate on an appropriate topic as arranged between the candidate and the research advisor. (Permission of instructor.) Credit variable (F, S, Su)	

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

Project-dependent

6.0 Topics (outline):

Project-dependent

7.0 Intended course learning outcomes and associated assessment methods of those outcomes (please include as many Course Learning Outcomes as appropriate, one outcome and assessment method per row).

Course Learning Outcome	Presentations and written reports
7.1 Apply knowledge and skills to a research problem	X
7.2 Acquire a skill set relevant to a specific research project	X
7.3 Acquire experience in searching and assessing current literature	X
7.4 Communicate knowledge and skills gained in conducting a research project	X

8.0 Program outcomes and/or goals supported by this course

8.1 To provide the theoretical, practical, and/or technological knowledge necessary to undertake graduate-level research in imaging science or related technologies.
8.2 To develop skills in applying mathematical techniques and scientific reasoning to

different physical situations.
8.3 To develop the capacity for critical thinking and problem solving.
8.4 To provide in-depth knowledge of currently active research areas in imaging science or related technologies.

9.0

N/A

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

None