

PLAN OF STUDY, p. 1 of 4

Proposed Program of _____ SID _____
(student's printed name) (student's ID number)

Leading to the Degree of _____ in Chemistry, Emphasizing _____
(MS or PhD) (Major within Chem)

Introduction

The Plan of Study (POS) is a formal agreement between the student, the Advisory Committee, the Department, and the University. Read the section of the Graduate Catalog dealing with the POS and the selection of the Advisory Committee. The POS lists the courses that the student and the Advisory Committee agree will give the student a course background consistent with University and Departmental requirements, the student's dissertation research objectives, and the student's future career plans.

Instructions

1. What courses should you list on your POS? Consult with your Research Director. List the courses you plan to take at Virginia Tech that will be considered essential to your graduate program in Chemistry. Do this carefully. Be sure to include the following:

- **All Students:** CHEM 5004 (Orientation to Graduate Research, 1 credit, 1st semester, only needed for those entering on or after January 1, 2009), GRAD 5004 (GTA Training Workshop, 1 credit, 1st semester, unless you were exempt), and ENGL 0014 (unless you were exempt).
- **PhD:** All Foundation Courses – those are the courses that you take because you had Proficiency Exam scores below the 60th percentile, see Table 3 on p. 9. These **must** be on the Plan of Study.
- **PhD:** All courses required for the Major Area within Chemistry (see Table 4 on p. 10).
- **PhD:** CHEM 5914 (Literature Review, 3 credits, 3rd semester), CHEM 6904 (Generating Research Ideas, 1 credit, 5th semester), and CHEM 6914 (Original Proposal, 3 credits, 6th semester), Graduate Seminar (CHEM 5944, 2 enrollments, 1 credit each, 6th and 8th semesters), and Research and Dissertation (CHEM 7994, see p. 6 for guidelines on estimating credit hours).
- **Thesis MS:** Graduate Seminar (CHEM 5944, 1 credit, 4th semester), Research and Thesis (CHEM 5994), see p. 5 for guidelines on estimating credit hours.
- **Non-Thesis MS:** Literature Review (CHEM 5914, 3 credits, 3rd semester) and Project and Report (CHEM 5904, 3 credits, final semester).

2. In which categories do you list different types of courses? The following general guidelines apply to assigning your different planned courses to PoS categories:

- *5000 and Higher Level Courses.* All 5000 and 6000 level lecture and laboratory courses, including CHEM 5004, 5944, 5914, 6904, and 6914, and GRAD 5004, should be listed in this category, as long as they are *relevant to your chemistry program*. Identify any Independent Study, Special Study, or Current Topics courses (for example “Advanced Green Chemistry”). Blank spaces are provided at the end of this category to insert courses not explicitly listed.
- *Research Courses.* This category **only** includes CHEM 5904 “Project and Report,” CHEM 5994 “Research and Thesis,” and CHEM 7994 “Research and Dissertation.”
- *4000 Level Courses.* Up to 6 total credits at the 4000 level may be listed in this category.
- *Supporting Courses.* Generally this category is used for courses below the 5000 level. All Chemistry Foundation Courses *below* the 5000 level **must** be listed here unless they are already listed in the *4000 Level Courses* category. ENGL 0014 should be listed here if you took that.

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Proposed Program of _____ for the _____ Degree in Chemistry
 (student's printed name) (MS or PhD)

5000 AND HIGHER LEVEL COURSES, Continued from previous page			
Course	Description	Semester	Credits
CHEM 5984	Special Study (specify in space below)		
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CHEM 6164	Current Topics in Analytical Chemistry (Bioanalytical)		3
CHEM 6424	Chemistry of the Main Group Elements		3
CHEM 6434	Organometallic Chemistry		3
CHEM 6464	Current Topics in Inorganic Chem. (Physical Methods)		3
CHEM 6504	Chemistry of Natural Products		3
CHEM 6564	Current Topics in Organic Chemistry		3
CHEM 6564	Bio-Organic Principles of Medicinal Chemistry		3
CHEM 6624	Statistical Thermodynamics		3
CHEM 6634	Quantum Chemistry & Spectroscopy		3
CHEM 6654	Advanced Statistical Mechanics		3
CHEM 6664	Current Topics in Physical Chemistry (Group Theory)		3
CHEM 6674	Physical Chemistry of Polymers		4
CHEM 6904	Generating Research Ideas		1
CHEM 6914	Original Research Proposal		3
Total Credits from Research Courses and 5000+ Level Graduate Courses			

4000 LEVEL COURSES			
Course	Description	Semester	Credits
Total Credits from 4000 Level Courses Approved for Graduate Credit (Max = 6)			

SUPPORTING COURSES			
Course	Description	Semester	Credits
Total Credits from Supporting Courses			

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Proposed Program of _____ for the _____ Degree in Chemistry
 (student's printed name) (MS or PhD)

Student's Mailing Address

Student ID Number: _____
 Home phone: _____
 Mobile phone: _____
 Email address: _____

Lab Room: _____

Lab phone: _____

*Please list **all** faculty members before obtaining any signatures. A committee member's signature on this form affirms that he or she has read and approved the student's completed Plan of Study **and** the listed composition of the Advisory Committee.*

Name (please print) List Department if not CHEM	Role on Committee	Signature*
	Committee Chair (Research Director)	
	Member	
	Member	
	Member	
	Member	

Signature of Graduate Program Director: _____ Date: _____

Paul A. Deck

Return the completed form to the Graduate Coordinator (Angie Miller). She will obtain the Department Chair's signature.

Approved: _____
 Joseph S. Merola, *Professor and Chair*