## Chemistry

### CHEM/Chemistry

### Ten Week Session

**CHEM 2900  INTRO CHEM RSCH**

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<tr>
<th>Section</th>
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<tbody>
<tr>
<td>713</td>
<td>5034</td>
<td>05:00-05:50</td>
<td>Schwartz M</td>
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RESTRICTED COURSE. APPROVAL REQUIRED. CONTACT DEPARTMENT.
RESTRICTED FOR TAMS SUMMER RESEARCH SCHOLARSHIP PROGRAM.

**CHEM 4900  SPECIAL PROBLEMS**

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<tr>
<th>Section</th>
<th>CRN</th>
<th>Time</th>
<th>Instructor</th>
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<tbody>
<tr>
<td>001</td>
<td>6143</td>
<td>05:00-05:50</td>
<td>Golden T</td>
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Course Topic: FORENSIC INTERNSHIP
RESTRICTED COURSE. APPROVAL REQUIRED. CONTACT DEPARTMENT.

**CHEM 3220 OR EQUIVALENT AND WRITTEN CONSENT OF PROFESSOR.**

### CHEM 4910  SPECIAL PROBLEMS**

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<th>Section</th>
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<tr>
<td>001</td>
<td>6089</td>
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Course Topic: FORENSIC INTERNSHIP
RESTRICTED COURSE. APPROVAL REQUIRED. CONTACT DEPARTMENT.

### CHEM 4912  RESEARCH CAPSTONE**

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<th>Section</th>
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<tr>
<td>001</td>
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Course Topic: FORENSIC INTERNSHIP
RESTRICTED COURSE. APPROVAL REQUIRED. CONTACT DEPARTMENT.
CHEM 3220 OR EQUIVALENT AND WRITTEN CONSENT OF PROFESSOR.
Five Week Session One

CHEM 1360  CONTEXT OF CHEM
001 (6960) CRE 3.0  MTWR  08:00 am-09:50 am  CHEM 109  Kinyanjui S
FOR SCIENCES CORE REQUIREMENT IN LABORATORY SCIENCE. FOR NON-SCIENCE MAJORS ONLY.
Also meets:  F  08:00 am-09:50 am CHEM 109  6/18/18-6/18
501 (12214) CRE 3.0  MTWR  05:29 pm-07:20 pm  FRSC 104  Tekarl S
THIS COURSE MEETS AT THE FRISCO CAMPUS
2811 INTERNET BLVD., FRISCO TX 75034.
Also meets:  F  05:29 pm-07:20 pm FRSC 104  6/18/18-6/18

CHEM 1410  GEN CHEM SCI
001 (2483) CRE 3.0  MTWR  08:00 am-09:50 am  CHEM 106  Petros A
FOR SCIENCES CORE REQUIREMENT IN LABORATORY SCIENCE.
MUST ALSO BE ENROLLED IN CHEM 1410.211 RECITATION.
PREREQUISITE: MATH 1100 OR EQUIVALENT.
SHOULD ALSO BE ENROLLED IN CHEM 1430.
GEN CHEM SCI I
Also meets:  F  08:00 am-09:50 am ENV  130  6/18/18-6/18
211 (2484) REC 0.0  M  02:00 pm-03:50 pm  CHEM 106  Petros A
HELP SESSION; MUST BE ENROLLED.
GEN CHEM SCI I

CHEM 1430  LAB SEQ GEN CHEM
001 (12528) CRE 1.0  INET  Petros A
WEB-BASED INSTRUCTION.
THIS IS AN INTERNET COURSE. COURSE ENROLLMENT IS RESTRICTED AND NON-TEXAS RESIDENT STUDENTS RESIDING OUTSIDE OF THE STATE ARE NOT ELIGIBLE TO ENROLL IN THIS SECTION. CONTACT THE DEPARTMENT FOR ENROLLMENT ASSISTANCE IN AN APPROPRIATE SECTION OF THE COURSE IF APPLICABLE.
MUST HAVE HAD OR BE CONCURRENTLY ENROLLED IN CHEM 1410. MUST ALSO CHOOSE A .5XX LAB SECTION. THIS LECTURE SECTION IS ENTIRELY ONLINE. PLEASE NOTE THAT THE ASSOCIATED LAB SECTIONS WILL MEET ON CAMPUS ON THE INDICATED DAYS AND TIMES.
501 (2485) LAB 0.0  TWR  09:59 am-12:50 pm  CHEM 131  Petros A
MUST HAVE HAD OR BE CONCURRENTLY ENROLLED IN CHEM 1410.
502 (2486) LAB 0.0  TWR  09:59 am-12:50 pm  CHEM 134  Petros A
MUST HAVE HAD OR BE CONCURRENTLY ENROLLED IN CHEM 1410.
503 (2487) LAB 0.0  TWR  09:59 am-12:50 pm  CHEM 137  Petros A
MUST HAVE HAD OR BE CONCURRENTLY ENROLLED IN CHEM 1410.
504 (2488) LAB 0.0  TWR  12:59 pm-03:50 pm  CHEM 131  Petros A
MUST HAVE HAD OR BE CONCURRENTLY ENROLLED IN CHEM 1410.
505 (7067) LAB 0.0  TWR  12:59 pm-03:50 pm  CHEM 134  Petros A
MUST HAVE HAD OR BE CONCURRENTLY ENROLLED IN CHEM 1410.
506 (7275) LAB 0.0  TWR  12:59 pm-03:50 pm  CHEM 137  Petros A
MUST HAVE HAD OR BE CONCURRENTLY ENROLLED IN CHEM 1410.
507 (12529) LAB 0.0  TWR  03:59 pm-06:50 pm  CHEM 131  Petros A

CHEM 2370  ORGANIC CHEMISTRY
001 (2489) CRE 3.0  MTWR  11:00 am-12:50 pm  SAGE 116  Berhe S
USUALLY TAKEN CONCURRENTLY WITH CHEM 3210.
PREREQUISITE: CHEM 1415, 1420, 1422, or 1423.
ORGANIC CHEMISTRY I
Also meets:  F  11:00 am-12:50 pm SAGE 116  6/18/18-6/18

CHEM 2900  INTRO CHEM RSCH
700 (2490) CRE V  
RESTRICTED COURSE APPROVAL REQUIRED. CONTACT INSTRUCTOR.
MULTIPLE SECTIONS OFFERED.
MUST REGISTER UNDER 7XX SECTION NUMBER ASSIGNED TO SUPERVISING FACULTY MEMBER.
CHEM 2910        INTRO CHEM RSCH  
700 (2514)        CRE V  
    RESTRICTED COURSE APPROVAL REQUIRED. CONTACT INSTRUCTOR.  
    MULTIPLE SECTIONS OFFERED.  
    MUST REGISTER UNDER 7XX SECTION NUMBER ASSIGNED TO SUPERVISING FACULTY MEMBER.

CHEM 3210        ORGANIC CHEM LAB  
001 (2538)        CRE 1.0 M 09:30 am-10:50 am ENV 125 Berhe S  
    MUST ALSO BE ENROLLED IN ANY CHEM 3210.3XX LAB SECTION.  
    MUST HAVE HAD OR BE CONCURRENTLY REGISTERED FOR CHEM 2370  
    PREREQUISITE: CHEM 1440 AND CHEM 2370 (SHOULD BE TAKEN CONCURRENTLY)  
301 (2539)        LAB 0.0 TWR 08:00 am-10:50 am CHEM 241 Berhe S  
302 (2540)        LAB 0.0 TWR 08:00 am-10:50 am CHEM 243 Berhe S  
303 (5879)        LAB 0.0 TWR 01:30 pm-04:20 pm CHEM 241 Berhe S  
304 (6403)        LAB 0.0 TWR 01:30 pm-04:20 pm CHEM 243 Berhe S  
305 (12530)       LAB 0.0 TWR 04:30 pm-07:20 pm CHEM 241 Berhe S  
306 (12531)       LAB 0.0 TWR 04:30 pm-07:20 pm CHEM 243 Berhe S

CHEM 3230        PHYSICAL MEASURE  
001 (7207)        CRE 1.0 M 03:00 pm-04:50 pm CHEM 352 Mcafee J  
    PREREQUISITE: CHEM 3510 OR SHOULD BE TAKEN CONCURRENTLY.  
    MUST ALSO ENROLL IN CHEM 3230.3XX  
301 (7208)        LAB 0.0 TWR 12:59 pm-03:50 pm CHEM 280 Mcafee J  
302 (12532)       LAB 0.0 TWR 03:59 pm-06:50 pm CHEM 280 Mcafee J

CHEM 3451        QUANT ANYL  
001 (12785)       CRE 3.0 MTWR 12:00 pm-01:50 pm CHEM 352 Acree Jr W  
    Also meets: F 12:00 pm-01:50 pm CHEM 352 6/8/18-6/8/18

CHEM 3452        QUANT ANYL LAB  
301 (12786)       CRE 1.0 TWR 08:00 am-11:50 am CHEM 283 Acree Jr W  
    Also meets: F 08:00 am-11:50 am CHEM 283 6/8/18-6/8/18
302 (12787)       CRE 1.0 TWR 02:00 pm-05:50 pm CHEM 283 Acree Jr W  
    Also meets: F 02:00 pm-05:50 pm CHEM 283 6/8/18-6/8/18

CHEM 3510        PHYSICAL CHEM  
001 (7205)        CRE 3.0 MTWR 09:59 am-11:50 am CURY 211 Mcafee J  
    MUST ALSO BE ENROLLED IN CHEM 3510.211  
    PRE-REQUISITES: MATH 1720  
    Also meets: F 09:59 am-11:50 am CURY 211 6/8/18-6/8/18  
211 (7206)        REC 0.0 M 12:59 pm-02:50 pm CURY 211 Mcafee J

CHEM 4900        SPECIAL PROBLEMS  
700 (2541)        CRE V  
    PREREQUISITE CHEM 3220 OR EQUIVALENT AND WRITTEN CONSENT OF PROFESSOR  
    MULTIPLE SECTIONS OFFERED.  
    MUST REGISTER UNDER 7XX SECTION NUMBER ASSIGNED TO SUPERVISING FACULTY MEMBER.  
    RESTRICTED COURSE APPROVAL REQUIRED. CONTACT INSTRUCTOR.

CHEM 4910        SPECIAL PROBLEMS  
700 (2565)        CRE V  
    Prerequisite Chem 3220 or equivalent and written consent of professor.  
    MULTIPLE SECTIONS OFFERED.  
    MUST REGISTER UNDER 7XX SECTION NUMBER ASSIGNED TO SUPERVISING FACULTY MEMBER.  
    RESTRICTED COURSE APPROVAL REQUIRED. CONTACT INSTRUCTOR.

CHEM 4912        RESEARCH CAPSTONE
RESTRICTED COURSE. APPROVAL REQUIRED. CONTACT DEPARTMENT.
PREREQUISITE: CHEM 3220 OR EQUIVALENT AND WRITTEN CONSENT OF PROFESSOR.
MULTIPLE SECTIONS OFFERED.
MUST REGISTER UNDER 7XX SECTION OF NUMBER ASSIGNED TO SUPERVISING FACULTY MEMBER.

CHEM 4920 \textbf{COOP ED IN CHEMISTRY}

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<tr>
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<th>Instructor</th>
<th>Type</th>
<th>Prerequisites</th>
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<tbody>
<tr>
<td>715</td>
<td>Acree Jr W</td>
<td>CRE V</td>
<td>CHEM 3220 or equivalent and written consent of professor.</td>
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RESTRICTED COURSE. APPROVAL REQUIRED. CONTACT DEPARTMENT.

CHEM 5900 \textbf{SPECIAL PROBLEMS}

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<tr>
<th>CRN</th>
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<th>Type</th>
<th>Prerequisites</th>
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</thead>
<tbody>
<tr>
<td>200</td>
<td>Golden T</td>
<td>CRE V</td>
<td>Contact instructor at <a href="mailto:TGOLDEN@UNT.EDU">TGOLDEN@UNT.EDU</a> for material necessary for course. Web-based instruction.</td>
</tr>
<tr>
<td>300</td>
<td>Golden T</td>
<td>CRE V</td>
<td>Contact instructor at <a href="mailto:TGOLDEN@UNT.EDU">TGOLDEN@UNT.EDU</a> for material necessary for course. This course is restricted. Limited to students residing out-of-state only. Contact department. Web-based instruction.</td>
</tr>
<tr>
<td>700</td>
<td>Golden T</td>
<td>CRE V</td>
<td>Contact instructor at <a href="mailto:TGOLDEN@UNT.EDU">TGOLDEN@UNT.EDU</a> for material necessary for course. Restricted course. Approval required. Contact department.</td>
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RESTRICTED COURSE APPROVAL REQUIRED. CONTACT INSTRUCTOR.

CHEM 5910 \textbf{SPECIAL PROBLEMS}

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<tr>
<td>700</td>
<td>Golden T</td>
<td>CRE V</td>
<td>Contact instructor at <a href="mailto:TGOLDEN@UNT.EDU">TGOLDEN@UNT.EDU</a> for material necessary for course. Restricted course. Approval required. Contact department.</td>
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RESTRICTED COURSE APPROVAL REQUIRED. CONTACT INSTRUCTOR.

CHEM 5920 \textbf{PROB LIEU THESIS}

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<td>750</td>
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<td>CRE 3.0</td>
<td>Multiple sections offered. Must register under 7XX section number assigned to supervising faculty member. Restricted course. Approval required. Contact instructor.</td>
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CHEM 5930 \textbf{PROB LIEU THESIS}

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<td>750</td>
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<td>CRE 3.0</td>
<td>Multiple sections offered. Must register under 7XX section number assigned to supervising faculty member. Restricted course. Approval required. Contact instructor.</td>
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CHEM 5950 \textbf{THESIS}

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<tr>
<td>750</td>
<td></td>
<td>CRE V</td>
<td>Multiple sections offered. Must register under 7XX section number assigned to supervising faculty member. Restricted course. Approval required. Contact department.</td>
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CHEM 6010 \textbf{DOCTORAL SEMINAR}
CHEM 6900  SPECIAL PROBLEMS
700  (2732)  CRE V
MULTIPLE SECTIONS OFFERED.
MUST REGISTER UNDER 7XX SECTION NUMBER ASSIGNED TO SUPERVISING FACULTY MEMBER.

CHEM 6910  SPECIAL PROBLEMS
700  (2752)  CRE V
MULTIPLE SECTIONS OFFERED.
MUST REGISTER UNDER 7XX SECTION NUMBER ASSIGNED TO SUPERVISING FACULTY MEMBER.

CHEM 6940  INDV RESEARCH
750  (2777)  CRE V
MULTIPLE SECTIONS OFFERED.
MUST REGISTER UNDER 7XX SECTION NUMBER ASSIGNED TO SUPERVISING FACULTY MEMBER.

CHEM 6950  DISSERTATION
750  (2805)  CRE V
MULTIPLE SECTIONS OFFERED.
MUST REGISTER UNDER 7XX SECTION NUMBER ASSIGNED TO SUPERVISING FACULTY MEMBER.

CHEM 6990  POST DOC RESEARCH
750  (2828)  CRE V
MULTIPLE SECTIONS OFFERED.
MUST REGISTER UNDER 7XX SECTION NUMBER ASSIGNED TO SUPERVISING FACULTY MEMBER.

Five Week Session Two

CHEM 1420  GEN CHEM SCI
001  (3697)  CRE 3.0  MTWR  08:00 am-09:50 am  CHEM 109  Browning C
FOR SCIENCES CORE REQUIREMENT IN LABORATORY SCIENCE. MUST ALSO BE ENROLLED IN CHEM 1420.211 RECITATION. SHOULD ALSO BE ENROLLED IN CHEM 1440.
GEN CHEM SCI II
211  (3698)  REC 0.0  M  02:00 pm-03:50 pm  CHEM 109  Browning C
HELP SESSION; STUDENT MUST BE ENROLLED.
GEN CHEM SCI II

CHEM 1440  LAB SEQ GEN CHEM
001  (12533)  CRE 1.0  INET  Browning C
WEB-BASED INSTRUCTION.
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501  (3699)  LAB 0.0  TWR  09:59 am-12:50 pm  CHEM 131  Browning C
SHOULD HAVE HAD OR BE CONCURRENTLY ENROLLED IN CHEM 1420.
502  (3700)  LAB 0.0  TWR  09:59 am-12:50 pm  CHEM 134  Browning C
SHOULD HAVE HAD OR BE CONCURRENTLY ENROLLED IN CHEM 1420.
503  (3701)  LAB 0.0  TWR  09:59 am-12:50 pm  CHEM 137  Browning C
SHOULD HAVE HAD OR BE CONCURRENTLY ENROLLED IN CHEM 1420.
504  (3702)  LAB 0.0  TWR  12:59 pm-03:50 pm  CHEM 131  Browning C
SHOULD HAVE HAD OR BE CONCURRENTLY ENROLLED IN CHEM 1420.
505  (12534)  LAB 0.0  TWR  12:59 pm-03:50 pm  CHEM 134  Browning C
SHOULD HAVE HAD OR BE CONCURRENTLY ENROLLED IN CHEM 1420.
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<td>ENV 125</td>
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<td>CHEM 253</td>
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<td>CHEM 4912</td>
<td>RESEARCH CAPSTONE</td>
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RESTRICTED COURSE. APPROVAL REQUIRED. CONTACT DEPARTMENT.
PREREQUISITE: CHEM 3220 OR EQUIVALENT AND WRITTEN CONSENT OF PROFESSOR.
MULTIPLE SECTIONS OFFERED.
MUST REGISTER UNDER 7XX SECTION OF NUMBER ASSIGNED TO SUPERVISING FACULTY MEMBER.

CHEM 4920 COOP ED IN CHEMISTRY
715 (3803) CRE V Acree Jr W
MULTIPLE SECTIONS OFFERED.
RESTRICTED COURSE. APPROVAL REQUIRED. CONTACT DEPARTMENT.

CHEM 5900 SPECIAL PROBLEMS
200 (3804) CRE V INET Golden T
CONTACT INSTRUCTOR AT TGOLDEN@UNT.EDU FOR MATERIAL NECESSARY FOR COURSE.
WEB-BASED INSTRUCTION.
RESTRICTED COURSE. APPROVAL REQUIRED. CONTACT DEPARTMENT.
300 (3805) CRE V INET Golden T
CONTACT INSTRUCTOR AT TGOLDEN@UNT.EDU FOR MATERIAL NECESSARY FOR COURSE.
THIS COURSE IS RESTRICTED. LIMITED TO STUDENTS RESIDING OUT-OF-STATE ONLY. CONTACT DEPARTMENT.
WEB-BASED INSTRUCTION.
700 (3806) CRE V
MULTIPLE SECTIONS OFFERED.
MUST REGISTER UNDER 7XX SECTION NUMBER ASSIGNED TO SUPERVISING FACULTY MEMBER.
RESTRICTED COURSE. APPROVAL REQUIRED. CONTACT DEPARTMENT.

CHEM 5910 SPECIAL PROBLEMS
200 (3831) CRE V INET Golden T
CONTACT INSTRUCTOR AT TGOLDEN@UNT.EDU FOR MATERIAL NECESSARY FOR COURSE.
WEB-BASED INSTRUCTION.
RESTRICTED COURSE. APPROVAL REQUIRED. CONTACT DEPARTMENT.
THIS IS AN INTERNET COURSE. COURSE ENROLLMENT IS RESTRICTED AND NON-TEXAS RESIDENT STUDENTS RESIDING OUTSIDE OF THE STATE ARE NOT ELIGIBLE TO ENROLL IN THIS SECTION. CONTACT THE DEPARTMENT FOR ENROLLMENT ASSISTANCE IN AN APPROPRIATE SECTION OF THE COURSE IF APPLICABLE.
300 (3832) CRE V INET Golden T
CONTACT INSTRUCTOR AT TGOLDEN@UNT.EDU FOR MATERIAL NECESSARY FOR COURSE.
THIS COURSE IS RESTRICTED. LIMITED TO STUDENTS RESIDING OUT-OF-STATE ONLY. CONTACT DEPARTMENT.
WEB-BASED INSTRUCTION.
RESTRICTED COURSE. APPROVAL REQUIRED. CONTACT DEPARTMENT.
700 (3833) CRE V
MULTIPLE SECTIONS OFFERED.
MUST REGISTER UNDER 7XX SECTION NUMBER ASSIGNED TO SUPERVISING FACULTY MEMBER.
RESTRICTED COURSE. APPROVAL REQUIRED. CONTACT DEPARTMENT.

CHEM 5920 PROB LIEU THESIS
750 (3858) CRE 3.0
MULTIPLE SECTIONS OFFERED.
MUST REGISTER UNDER 7XX SECTION NUMBER ASSIGNED TO SUPERVISING FACULTY MEMBER.
RESTRICTED COURSE. APPROVAL REQUIRED. CONTACT DEPARTMENT.

CHEM 5930 PROB LIEU THESIS
750 (3878) CRE 3.0
MULTIPLE SECTIONS OFFERED.
MUST REGISTER UNDER 7XX SECTION NUMBER ASSIGNED TO SUPERVISING FACULTY MEMBER.
RESTRICTED COURSE APPROVAL REQUIRED. CONTACT INSTRUCTOR.

CHEM 5950 THESIS
RESTRICTED COURSE. APPROVAL REQUIRED. CONTACT DEPARTMENT.
MULTIPLE SECTIONS OFFERED.
MUST REGISTER UNDER 7XX SECTION NUMBER ASSIGNED TO SUPERVISING FACULTY MEMBER.

CHEM 6010 DOCTORAL SEMINAR
700 (3926) CRE V
MULTIPLE SECTIONS OFFERED.
MUST REGISTER UNDER 7XX SECTION NUMBER ASSIGNED TO SUPERVISING FACULTY MEMBER.
RESTRICTED COURSE. APPROVAL REQUIRED. CONTACT DEPARTMENT.

CHEM 6900 SPECIAL PROBLEMS
700 (3945) CRE V
MULTIPLE SECTIONS OFFERED.
MUST REGISTER UNDER 7XX SECTION NUMBER ASSIGNED TO SUPERVISING FACULTY MEMBER.
RESTRICTED COURSE. APPROVAL REQUIRED. CONTACT DEPARTMENT.

CHEM 6910 SPECIAL PROBLEMS
700 (3965) CRE V
MULTIPLE SECTIONS OFFERED.
MUST REGISTER UNDER 7XX SECTION NUMBER ASSIGNED TO SUPERVISING FACULTY MEMBER.
RESTRICTED COURSE. APPROVAL REQUIRED. CONTACT DEPARTMENT.

CHEM 6940 INDV RESEARCH
750 (3989) CRE V
MULTIPLE SECTIONS OFFERED.
MUST REGISTER UNDER 7XX SECTION NUMBER ASSIGNED TO SUPERVISING FACULTY MEMBER.
RESTRICTED COURSE. APPROVAL REQUIRED. CONTACT DEPARTMENT.

CHEM 6950 DISSERTATION
750 (4017) CRE V
MULTIPLE SECTIONS OFFERED.
MUST REGISTER UNDER 7XX SECTION NUMBER ASSIGNED TO SUPERVISING FACULTY MEMBER.
RESTRICTED COURSE. APPROVAL REQUIRED. CONTACT DEPARTMENT.

CHEM 6990 POST DOC RESEARCH
750 (4040) CRE V
MULTIPLE SECTIONS OFFERED.
MUST REGISTER UNDER 7XX SECTION NUMBER ASSIGNED TO SUPERVISING FACULTY MEMBER.
RESTRICTED COURSE. APPROVAL REQUIRED. CONTACT DEPARTMENT.