<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Course Topic</th>
<th>Instructor</th>
<th>Time</th>
<th>Location</th>
<th>Requisite(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 1360</td>
<td>CONTEXT OF CHEM</td>
<td></td>
<td>Tekarl S</td>
<td>12:59 pm-02:20 pm</td>
<td>FRSC 123</td>
<td>This course meets at the Frisco campus. Restricted course. Approval required. Contact department.</td>
</tr>
<tr>
<td>CHEM 1400</td>
<td>DISCOVER CHEMISTRY</td>
<td></td>
<td>Kinyanjui S</td>
<td>09:59 am-10:50 am</td>
<td>HKRY 252</td>
<td>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.</td>
</tr>
<tr>
<td>CHEM 1410</td>
<td>GEN CHEM SCI</td>
<td></td>
<td>Moss A</td>
<td>11:00 am-11:50 am</td>
<td>ENV 125</td>
<td>For COS core requirement in Laboratory Science. Pre-Requisite: Math 1100 with C or better, or equivalent. 100% online. No on-site meetings. May require set times to participate online as noted. 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 also enroll in Chem 1430 laboratory.</td>
</tr>
<tr>
<td>ENV 110</td>
<td>FOR ARTS AND SCIENCES CORE REQUIREMENT IN LABORATORY SCIENCE. SHOULD ALSO BE ENROLLED IN CHEM 1430 LABORATORY. PREREQUISITE: MATH 1100 OR EQUIVALENT. MUST BE ENROLLED IN CHEM 1410.221</td>
<td>Atkinson M</td>
<td>11:00 am-11:50 am</td>
<td>ENV 125</td>
<td>For COS core requirement in Laboratory Science. Should also be enrolled in Chem 1430 laboratory. Pre-Requisite: Math 1100 with C or better, or equivalent. Must also enroll in Chem 1410.231 MUST BE ENROLLED IN CHEM 1410.231</td>
<td></td>
</tr>
<tr>
<td>PHYS 102</td>
<td>FOR ARTS AND SCIENCES CORE REQUIREMENTS IN LABORATORY SCIENCE. SHOULD ALSO BE ENROLLED IN CHEM 1430. PREREQUISITE: MATH 1100 OR EQUIVALENT. MUST BE ENROLLED IN CHEM 1410.251</td>
<td>Kinyanjui S</td>
<td>11:00 am-12:20 pm</td>
<td>PHYS 102</td>
<td>For Arts and Sciences core requirements in Laboratory Science. Must also enroll in Chem 1410.241. Pre Requisites: Math 1100 with C or better or equivalent. Should also enroll in Chem 1430 Laboratory.</td>
<td></td>
</tr>
</tbody>
</table>
For COS core requirement in Laboratory Science
Should also be enrolled in Chem 1430 laboratory
Pre-Requisite: Math 1100 with C or better, or equivalent
Must also enroll in Chem 1410.261
This is an active learning class, so students are expected to come to class prepared to participate and
discuss the daily topics. Bringing an electronic device such as a laptop, tablet, or iPad would also be
helpful.

SHOULD ALSO BE ENROLLED IN CHEM 1430 LABORATORY.
MUST ALSO BE ENROLLED IN CHEM 1410.261

This is a special active learning section that follows a different format. Students will be expected to
complete online modules outside of scheduled class time. Weekly classes will focus on interactive, hands
on instruction and graded teams based problem solving assignments.

Must also enroll in Chem 1410.281.

Pre Requisites: Math 1100 with C or better or equivalent.
SHOULD ALSO BE ENROLLED IN CHEM 1430 LABORATORY.
PREREQUISITE: MATH 1100 OR EQUIVALENT.
MUST BE ENROLLED IN CHEM 1410.281

For COS core requirement in Laboratory Science
Should also be enrolled in Chem 1430 laboratory
Pre-Requisite: Math 1100 with C or better, or equivalent
Must also enroll in Chem 1410.210

For COS core requirement in Laboratory Science
Should also be enrolled in Chem 1430 laboratory
Pre-Requisite: Math 1100 with C or better, or equivalent
Must also enroll in Chem 1410.212

ATTENDANCE MANDATORY

100% online. No on-site meetings. May require set times to participate online as noted.
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.
<table>
<thead>
<tr>
<th>CRN</th>
<th>Section</th>
<th>Instructor</th>
<th>Type</th>
<th>Days</th>
<th>Time</th>
<th>Location</th>
<th>Notes</th>
</tr>
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<tbody>
<tr>
<td>271</td>
<td>REC 0.0</td>
<td>Kinyanjui S</td>
<td>03:30 pm-04:20 pm</td>
<td>CHEM 109</td>
<td>Kinyanjui S</td>
<td></td>
<td></td>
</tr>
<tr>
<td>281</td>
<td>REC 0.0</td>
<td>Petros A</td>
<td>12:59 pm-01:50 pm</td>
<td>ENV 110</td>
<td>Petros A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>291</td>
<td>REC 0.0</td>
<td>Zhang R</td>
<td>03:59 pm-04:50 pm</td>
<td>ENV 110</td>
<td>Zhang R</td>
<td></td>
<td></td>
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<tr>
<td>601</td>
<td>REC 3.0</td>
<td>Tekarli S</td>
<td>09:00 am-10:20 am</td>
<td>FRIP 135</td>
<td>Tekarli S</td>
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<tr>
<td>611</td>
<td>REC 0.0</td>
<td>Tekarli S</td>
<td>10:30 am-11:20 am</td>
<td>FRIP 135</td>
<td>Tekarli S</td>
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<tr>
<td>002</td>
<td>CRE 3.0</td>
<td>Kelber J</td>
<td>11:00 am-12:20 pm</td>
<td>HKRY 252</td>
<td>Kelber J</td>
<td></td>
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</tr>
<tr>
<td>221</td>
<td>REC 0.0</td>
<td>Kelber J</td>
<td>03:30 pm-04:20 pm</td>
<td>ENV 120</td>
<td>Kelber J</td>
<td></td>
<td></td>
</tr>
<tr>
<td>001</td>
<td>CRE 3.0</td>
<td>Acree Jr W</td>
<td>09:00 am-09:50 am</td>
<td>CHEM 109</td>
<td>Acree Jr W</td>
<td></td>
<td></td>
</tr>
<tr>
<td>211</td>
<td>REC 0.0</td>
<td>Liu S</td>
<td>08:00 am-08:50 am</td>
<td>ESSC 255</td>
<td>Liu S</td>
<td></td>
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</tr>
<tr>
<td>002</td>
<td>CRE 3.0</td>
<td>Liu S</td>
<td>12:30 pm-01:50 pm</td>
<td>ENV 130</td>
<td>Liu S</td>
<td></td>
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<tr>
<td>003</td>
<td>CRE 3.0</td>
<td>Liu S</td>
<td>11:00 am-11:50 am</td>
<td>GAB 104</td>
<td>Liu S</td>
<td></td>
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<tr>
<td>211</td>
<td>REC 0.0</td>
<td>Liu S</td>
<td>03:30 pm-04:20 pm</td>
<td>CHEM 109</td>
<td>Liu S</td>
<td></td>
<td></td>
</tr>
<tr>
<td>221</td>
<td>REC 0.0</td>
<td>Liu S</td>
<td>03:59 pm-04:50 pm</td>
<td>ENV 130</td>
<td>Liu S</td>
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</tr>
<tr>
<td>231</td>
<td>REC 0.0</td>
<td>Liu S</td>
<td>03:30 pm-04:20 pm</td>
<td>CHEM 109</td>
<td>Liu S</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
|      |         |              |        |      |               |            | 100% online. No on-site meetings. May require set times to participate online as noted.  
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.  
| 221  | REC 0.0 | Liu S        | 03:30 pm-04:20 pm | CHEM 109 | Liu S        | 100% online. No on-site meetings. May require set times to participate online as noted.  
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.  

CHEM 1412  GEN CHEM HONORS COLL

HONORS COLLEGE STUDENTS ONLY MUST ALSO BE ENROLLED IN CHEM 1412.221

CHEM 1413  HONORS GEN CHEM

FOR ARTS AND SCIENCES CORE REQUIREMENT IN LABORATORY SCIENCE. MUST ALSO BE ENROLLED IN CHEM 1413.211 HONORS CHEMISTRY. SHOULD ALSO BE ENROLLED IN CHEM 1430 LABORATORY.  
PREREQUISITE: MATH 1100 OR EQUIVALENT. RESTRICTED COURSE APPROVAL REQUIRED. CONTACT INSTRUCTOR.  
Restricted course. Approval required. Contact department.

CHEM 1420  GEN CHEM SCI

FOR ARTS AND SCIENCES CORE REQUIREMENT IN LABORATORY SCIENCE. MUST ALSO BE ENROLLED IN CHEM 1440 LABORATORY.  
PREREQUISITE: CHEM 1410 OR EQUIVALENT. MUST ALSO BE ENROLLED IN CHEM 1420.211.  
PREREQUISITE: CHEM 1420 OR EQUIVALENT. MUST BE ENROLLED IN CHEM 1420.221.

CHEM 1430  LAB SEQ GEN CHEM
MUST ALSO CHOOSE A .3XX LAB SECTION.
MUST HAVE HAD OR BE CONCURRENTLY ENROLLED IN CHEM 1410.
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.

THIS LECTURE SECTION IS ENTIRELY ONLINE. PLEASE NOTE THAT THE ASSOCIATED LAB WILL MEET ON CAMPUS ON THE INDICATED DAYS AND TIMES.

Class meets at UNT Inspire Park located at 6170 Research Rd. In Frisco, Texas 75034.

CHEM 1440    LAB SEQ GEN CHEM
MUST HAVE HAD OR BE CONCURRENTLY ENROLLED IN CHEM 1420.
MUST CHOOSE A .3XX LAB.
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.

THIS LECTURE SECTION IS ENTIRELY ONLINE. PLEASE NOTE THAT THE ASSOCIATED LAB WILL MEET ON CAMPUS ON THE INDICATED DAYS AND TIMES.

CHEM 1980  EXPERIMENT COURSE

CHEM 2370  ORGANIC CHEMISTRY

001 (18295) CRE 3.0 MWF 09:59 am-10:50 am  SAGE 230  Weber R

This is an active learning class, so students are expected to come to class prepared to participate and discuss the daily topics. Bringing an electronic device such as a laptop, tablet, or iPad would also be helpful.

001 (2238) CRE 3.0 MWF 09:59 am-10:50 am  SAGE 116  Dandekar S
PREREQUISITE: CHEM 1415, 1420, 1422 OR 1423.
SHOULD ALSO BE ENROLLED IN 3210 LAB.
MUST ALSO BE ENROLLED IN CHEM 2370.211

002 (2239) CRE 3.0 MWF 08:00 am-08:50 am  SAGE 116  Corrales A
PREREQUISITE: CHEM 1415, 1420, 1422 OR 1423.
SHOULD ALSO BE ENROLLED IN 3210 LAB.
MUST ALSO BE ENROLLED IN CHEM 2370.212

003 (2240) CRE 3.0 TR 09:30 am-10:50 am  SAGE 116  Berhe S
PREREQUISITE: CHEM 1415, 1420, 1422 OR 1423.
SHOULD ALSO BE ENROLLED IN 3210 LAB.
MUST ALSO BE ENROLLED IN CHEM 2370.213

004 (17701) CRE 3.0 TR 08:00 am-09:20 am  LYCM  Berhe S
PREREQUISITE: CHEM 1415, 1420, 1422 OR 1423.
SHOULD ALSO BE ENROLLED IN 3210 LAB.
MUST ALSO BE ENROLLED IN CHEM 2370.214
100% online. No on-site meetings. May require set times to participate online as noted. 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.

PREREQUISITE: CHEM 1415, 1420, 1422 OR 1423.

MUST ALSO BE ENROLLED IN 3210 LAB.

This is a special low enrollment section limited to 35 students to provide students with the option for a small class learning environment.

Must also enroll in 2370.216

Pre Reqs: CHEM 1420 and 1440 with C or better.

Must also enroll in CHEM 3210 laboratory.

CHEM 2380 ORGANIC CHEMISTRY

PREREQUISITE: CHEM 2370

MUST ALSO BE ENROLLED IN CHEM 3220 LAB.

MUST ALSO ENROLL IN CHEM 2380.211

PRE REQUISITES: CHEM 2370 WITH C OR BETTER.

CHEM 2900 INTRO CHEM RSCH
Must also enroll in .3XX lab section.

Pre Requisites: Chem 1440 with C or better and concurrent enrollment in Chem 2370.

The 001 lab lecture will be online but associated 3XX lab sections will meet on campus in person at the listed days and times.

100% online. No on-site meetings. May require set times to participate online as noted.

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.
CHEM 243M Marpu SLAB 0.0 12:00 pm-02:50 pm 302 (2298)
CHEM 243M Marpu SLAB 0.0 03:00 pm-05:50 pm 303 (3759)
CHEM 243M Marpu SLAB 0.0 06:00 pm-08:50 pm 304 (4820)
CHEM 243T Marpu SLAB 0.0 09:30 am-12:20 pm 305 (5130)
CHEM 243T Marpu SLAB 0.0 12:30 pm-03:20 pm 306 (12533)
CHEM 243T Marpu SLAB 0.0 03:30 pm-06:20 pm 307 (13255)
CHEM 243T Marpu SLAB 0.0 06:30 pm-09:20 pm 308 (13756)

CHEM 3230 PHYSICAL MEASURE
001 (2299) CRE 1.0 T 12:59 pm-01:50 pm HKRY 252 Weber R
MUST ALSO BE ENROLLED IN CHEM 3230.3XX.
CHEM 3510 (MAY BE TAKEN CONCURRENTLY).

CHEM 3330 FORENSIC SCIENCE ANALY
001 (17705) CRE 4.0 MWF 08:00 am-08:50 am CHEM 253 Williams K
Restricted course. Approval required. Contact department.

CHEM 3451 QUANT ANYL
001 (2301) CRE 3.0 TR 09:30 am-10:50 am CHEM 106 Chyan O
PRE REQUISITES: CHEM 1420 & CHEM 1440 WITH C OR BETTER.
SHOULD ALSO BE ENROLLED IN CHEM 3452 LAB
CHOOSE FROM 3452.301 THROUGH 3452.305.

CHEM 3452 QUANT ANYL LAB
301 (2302) CRE 1.0 M 12:59 pm-04:50 pm CHEM 283 Chyan O
PRE REQUISITE: CHEM 1420 & 1440 WITH C OR BETTER.
MUST HAVE HAD OR BE CONCURRENTLY ENROLLED IN CHEM 3451.

CHEM 3510 PHYSICAL CHEM
001 (2305) CRE 3.0 MWF 09:59 am-10:50 am CHEM 106 Yan H
MUST ALSO ENROLL IN CHEM 3510.211
SHOULD ALSO ENROLL IN CHEM 3230
PRE REQUISITES: CHEM 1420, MATH 1720 AND PHYS 1420 OR 2220 ALL WITH C OR BETTER
211 (2306) REC 0.0 W 12:59 pm-01:50 pm CHEM 106 Yan H

CHEM 4610 ADV INORG CHEM
002 (2309) CRE 3.0 MW 02:00 pm-03:20 pm CHEM 352 Omary M
PREREQUISITE: CHEM 3520.

CHEM 4660 INTRO TO COMP CHEM
CHEM 232MW  Cisneros G
Restricted course. Approval required. Contact department.

CHEM 4900  SPECIAL PROBLEMS
001  (19220)  CRE V  M  05:00 pm-05:50 pm  CHEM 106  Williams K
Restricted course. Approval required. Contact department.

700 (2310)  CRE V
PREREQUISITE: CHEM 3220 OR EQUIVALENT AND WRITTEN CONSENT OF INSTRUCTOR.

Restricted course. Approval required. Contact department.

704  (19753)  CRE V  Ma S
Restricted course. Approval required. Contact department.

712  (19828)  CRE V  Skellam E
Restricted course. Approval required. Contact department.

717  (16728)  CRE V  McAfee J
Restricted course. Approval required. Contact department.

728  (16729)  CRE V  Williams K
Restricted course. Approval required. Contact department.

CHEM 4910  SPECIAL PROBLEMS
700  (2326)  CRE V
PREREQUISITE: CHEM 3220 OR EQUIVALENT AND WRITTEN CONSENT OF INSTRUCTOR.

Restricted course. Approval required. Contact department.

708  (19889)  CRE V  Atkinson M
Restricted course. Approval required. Contact department.

712  (19887)  CRE V  Skellam E
Restricted course. Approval required. Contact department.

CHEM 4912  RESEARCH CAPSTONE
001  (19752)  CRE 3.0  Williams K
Restricted course. Approval required. Contact department.

700  (5276)  CRE 3.0
Restricted course. Approval required. Contact department.

PREREQUISITE CHEM 3220 OR EQUIVALENT AND WRITTEN CONSENT OF PROFESSOR.

MUST REGISTER UNDER 7XX SECTION OF NUMBER ASSIGNED TO SUPERVISING FACULTY MEMBER.

CHEM 4920  COOP ED IN CHEMISTRY
700  (2341)  CRE V  Acree Jr W
Restricted course. Approval required. Contact department.

706  (13787)  CRE V  Weber R
Restricted course. Approval required. Contact department.

CHEM 4930  SEL TOPICS CHEM
001  (19395)  CRE 3.0  TR  03:30 pm-04:20 pm  CHEM 253  D'Souza F
Course Topic: FLOURESCENCE & PHOTOCHEMISTRY
Restricted course. Approval required. Contact department.
Course topic: Florescence and Photochemistry.

002  (19396)  CRE 3.0  TR  08:00 am-09:20 am  CHEM 253  Golden T
Course Topic: ADV X-RAY DIFFRACTION
Restricted course. Approval required. Contact department.
Course topic: Advanced X-Ray Defraction.

CHEM 4940  CHEM SEMINAR
001  (19598)  CRE 1.0  F  03:30 pm-04:20 pm  CHEM 109  Cundari T
Restricted course. Approval required. Contact department.
CHEM 5010       GRAD TEACH AND RES
002 (2342)     CRE 2.0  MW  09:59 am-10:50 am  CHEM 352  Slaughter III L
CHEM 5200       PHYSICAL CHEM
002 (2343)     CRE 3.0  TR  09:30 am-10:50 am  ART 219  Marshall P
CHEM 5390       SEL TOP ANLY CHEM
001 (19397)    CRE 3.0  TR  08:00 am-09:20 am  CHEM 253  Golden T
Course Topic: ADV X-RAY DIFFRACTION
Restricted course. Approval required. Contact department.
Course topic: Advanced X-Ray Diffraction.
CHEM 5500       PHYSICAL ORGANIC
001 (13755)    CRE 3.0  TR  12:30 pm-01:20 pm  MATT 114  Berhe S
CHEM 5560       INORGANIC CHEM
002 (2344)     CRE 3.0  MW  02:00 pm-03:20 pm  CHEM 352  Omary M
CHEM 5570       ADV ANLY CHEM
002 (4339)     CRE 3.0  MW  09:00 am-09:50 am  CHEM 253  Verbeck IV G
CHEM 5580       SEL TOP ORG CHEM
001 (19394)    CRE 3.0  TR  03:30 pm-04:20 pm  CHEM 253  D'Souza F
Course Topic: FLOURESCENCE & PHOTOCHEMISTRY
Restricted course. Approval required. Contact department.
CHEM 5660       COMP CHEMISTRY
001 (13464)    CRE 3.0  MW  12:30 pm-01:50 pm  CHEM 232  Cisneros G
CHEM 5940       SEMINAR CUR CHEM
001 (2408)     CRE 1.0  F  03:30 pm-04:20 pm  CHEM 109  Cundari T
CHEM 5950       THESIS
750 (2409)     CRE V
Restricted course. Approval required. Contact department.
CHEM 6010       DOCTORAL SEMINAR
700 (2425)     CRE 3.0
706 (17704)    CRE 3.0  Wang H
Restricted course. Approval required. Contact department.
CHEM 6940       INDV RESEARCH
750 (2431)     CRE V
Restricted course. Approval required. Contact department.
754 (17998)    CRE V  Ma S
Restricted course. Approval required. Contact department.
758 (17999)    CRE V  Atkinson M
Restricted course. Approval required. Contact department.
762 (18000)    CRE V  Skellam E
Restricted course. Approval required. Contact department.
778 (16407)    CRE V  Williams K
Restricted course. Approval required. Contact department.
CHEM 6950       DISSERTATION
750 (2448)     CRE V
Restricted course. Approval required. Contact department.
Ma SCRE V754 (19888)  
Restricted course. Approval required. Contact department.

Atkinson MCRE V758 (19785)  
Restricted course. Approval required. Contact department.

CHEM 6990 POST DOC RESEARCH

750 (2464) CRE V

Verbeck IV GCRE V774 (4219)  
Restricted course. Approval required. Contact department.