



Department of Chemistry

January 2026



Chemistry Undergraduate Programs Office



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Use Navigate system in howdy portal to schedule
Zoom appointments.
Dr. Mawk: https://tamu.campus.eab.com/pal/ir_hXOX98I
Dr. Gaede: <https://tamu.campus.eab.com/pal/rj2QZMlbYz>

advising@chem.tamu.edu
Email messages should include name & UIN
Allow 24 hr response during the week
979-845-0520
Monday - Friday 8 a.m. - 12 p.m.; 1 p.m. - 5 p.m.

Contact Us

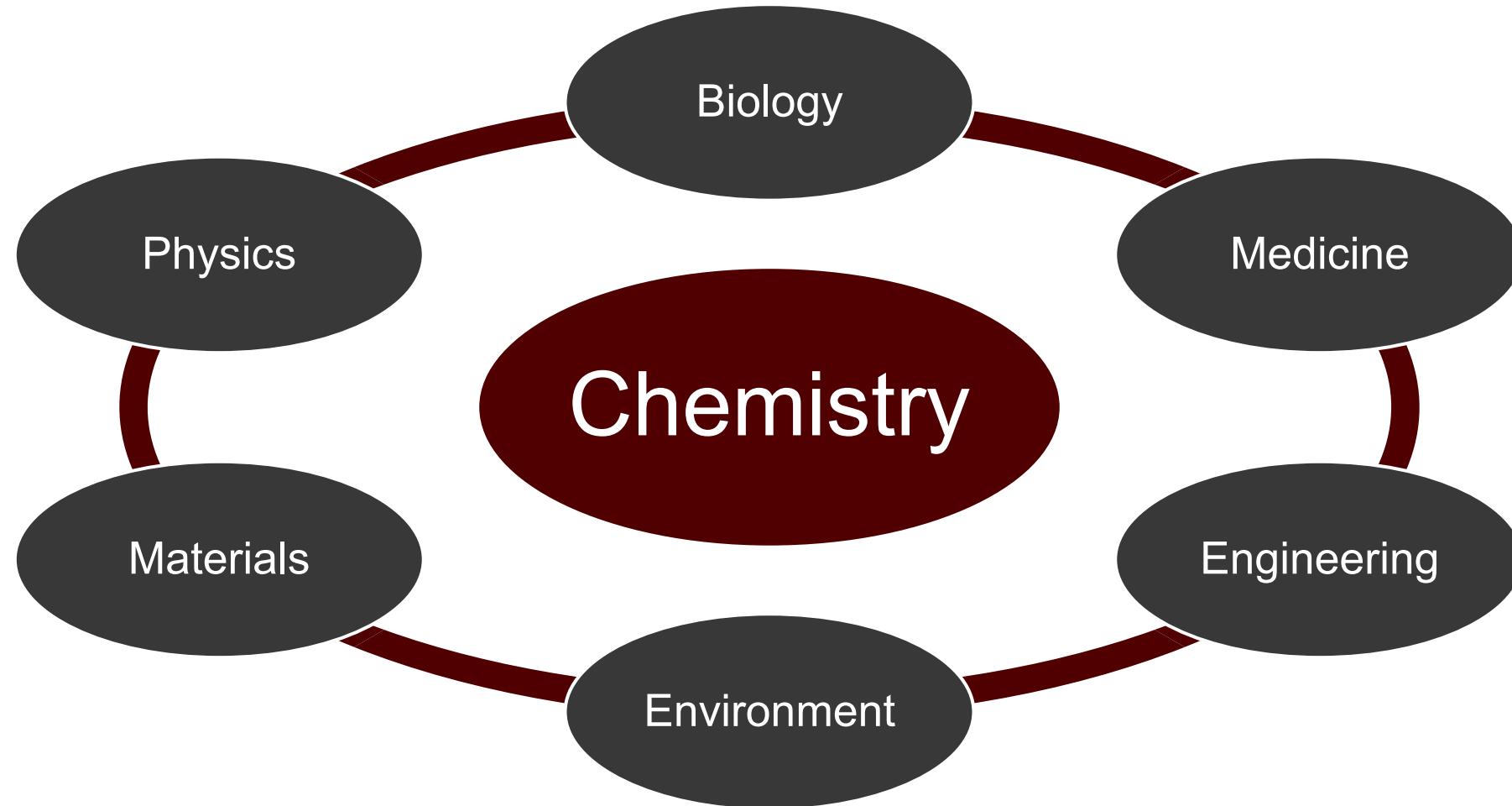


- 104 Chemistry Building
- (979) 845-0520
- advising@chem.tamu.edu



- @tamu.chemistry
- @TAMUChemistry
- @TAMUChemistry
- @tamuchemistry

Chemistry: The Central Science



TAMU Has One of the Largest And Best Chemistry Departments in the Us

People

- ~70 faculty
- ~300 undergraduate chemistry majors
- ~330 graduate students

Education

- ~13,000 seats in undergraduate chemistry classes Fall 2025
- >8500 students in first-year chemistry
- Special classes and sections reserved for chemistry majors



Research

~\$19M Expenditures annually
Ranked 27th nationally, 15th public (#5 inorganic)
Three faculty members in the National Academy of Sciences

Careers of our Former Students

- Research scientists in Industry, University, Start-Up, and Government Laboratories
Oil/Gas; Pharmaceuticals; Biotech; Cosmetics/Personal Care; Paints/Coatings; Agriculture; Batteries; Polymers
- Physicians, Dentists, Pharmacists, Physician's Assistants, Veterinarians, Lawyers
- Professors in Colleges/Universities; Teachers in High Schools
- Environmental Monitors
- Forensic Scientists and Criminalists for DPS, DEA
- Sales (Technical, Pharmaceutical); Marketing; Finance

Expected Lifetime Earnings by Major



FIELD	MEDIAN (50TH PERCENTILE)	25TH PERCENTILE	75TH PERCENTILE
Chemical engineering	\$4.97M	\$4.20M	\$6.01M
Aerospace engineering	\$4.69M	\$4.01M	\$5.54M
Chemistry	\$4.64M	\$3.81M	\$5.58M
Economics	\$4.61M	\$3.70M	\$5.74M
Biological sciences	\$4.58M	\$3.77M	\$5.64M
Computer engineering	\$4.55M	\$3.89M	\$5.44M
Electrical engineering	\$4.54M	\$3.85M	\$5.39M
Finance	\$4.48M	\$3.65M	\$5.48M
Mechanical engineering	\$4.44M	\$3.74M	\$5.23M
Industrial engineering	\$4.34M	\$3.64M	\$5.15M
Computer science	\$4.30M	\$3.61M	\$5.09M
Physics	\$4.25M	\$3.54M	\$5.15M
Political science	\$4.20M	\$3.45M	\$5.27M
Mathematics and statistics	\$4.15M	\$3.45M	\$5.04M
Civil engineering	\$4.15M	\$3.53M	\$4.84M
Engineering (other)	\$4.12M	\$3.51M	\$4.86M
Nursing	\$4.11M	\$3.53M	\$4.89M
Management and information science	\$3.99M	\$3.44M	\$4.70M
Accounting	\$3.98M	\$3.22M	\$4.90M
Information science	\$3.95M	\$3.35M	\$4.67M

Note: adjusted for inflation, in constant 2016 dollars

Source: [Douglas Webber](#)

DEPARTMENT OF DATA / THE WASHINGTON POST

<http://www.chem.tamu.edu/undergraduate/employers.php>

<https://www.washingtonpost.com/business/2022/09/02/college-major-regrets/>

Catalog

University Core Curriculum

General Information → University Core Curriculum

<https://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/>

Chemistry Degree Plans

College of Arts & Sciences → Chemistry → Majors Tab

<https://catalog.tamu.edu/undergraduate/arts-and-sciences/chemistry/#text>

Course Descriptions

Prerequisites

<https://catalog.tamu.edu/undergraduate/course-descriptions/>

Appendix

Texas Common Course Numbering System

<https://catalog.tamu.edu/undergraduate/appendices/texas-common-course-numbering-system/>



<https://catalog.tamu.edu/>

Degree plans

Chemistry undergraduate degree plans

	B.S.	B.A.
Designed for	Laboratory careers; graduate school; research	Other careers (medicine, pharmacy, teaching)
Hours of Chemistry	56 credits	40 credits
Hours of Math	14 credits	8 credits
Hours of Physics	8 credits	8 credits
Remaining core curriculum	27 credits	27 credits
Hours of Undirected Electives	15 credits	37 credits
Minor or Track (hours will vary)	Optional	Required
Research	Required	Optional

BS/MS Program

- Earn BS & MS in 5 years
- Most accessible for students who enter with college credit
- Good for students seeking careers in science policy, science communication, risk management, or seeking PhD outside of US institutions (where MS is often required for application)
- Students apply after junior year
- Eligibility
 - 3.25 GPR
 - Successful completion of CHEM328, CHEM481, and one graduate course

HONORS PROGRAM IN CHEMISTRY

REQUIREMENTS TO RECEIVE APPLICATION: Minimum 720 on Math SAT *OR* minimum 28 on Math ACT *OR* top 7% HS class

REQUIREMENTS: 18 credits in Honors chemistry courses

- Up to 6 credits from CHEM 119H; CHEM 120H; CHEM 227H; CHEM 228H
- Up to 6 credits from any 300 and 400 level CHEM Honors course (not including CHEM 491H)
- No more than 6 credits from 600 level CHEM courses (credit must count toward undergraduate credit)
- 6 credits of CHEM 491H, including an Honors Thesis

GRADUATION WITH CHEMISTRY HONORS: Cumulative Texas A&M University GPR and Honors GPR of 3.5+

You do not have to start with honors this semester to earn an honors degree.

You can join next semester if you have a TAMU GPR of 3.5+

Chemistry Course Requirements

Gen Chem

- CHEM 119 & 120

Organic

- CHEM227/231 & CHEM228/234*

Physical

- CHEM327 & CHEM328 OR CHEM321 (BA); CHEM325 & CHEM326

Analytical

- CHEM315/318 and CHEM415/434 (required for BS ONLY)

Inorganic

- CHEM362/433 (required for BS ONLY)

Advanced

- 2-3 courses; many choices (BS majors seeking ACS cert. choose BICH410)

Seminar

- CHEM100‡ & CHEM481*

Research

- CHEM491 (required for BS ONLY)

*Writing/Communication Intensive

‡ Will take in the fall

Graduation Requirements

- Core curriculum <http://core.tamu.edu/>

Communication (6 hrs.)	ENGL103/104/210 + choice
Mathematics (6 hrs.)	Calculus 1 & 2 Calc. 3 & Adv. Math (BS)
Life & Physical Science (9 hrs.)	CHEM 119 & CHEM 120 PHYS206/226 & PHYS207/227 OR PHYS201 & PHYS202 (BA)
Language, Philosophy & Culture (3 hrs.)	Choice
Creative Arts (3 hrs.)	Choice
Social & Behavioral Science (3 hrs.)	Choice
American History (6 hrs.)	Choice
Political Science (6 hrs.)	POLS 206 + POLS207

- University requirements

International & Cultural Diversity (3 hrs.)	Choice https://core.tamu.edu/
Cultural Discourse (3 hrs.)	Choice https://core.tamu.edu/
Writing/communication	CHEM234 & CHEM481
Foreign Language	2 years in high school or 2 semesters here
Residency	36 hrs. of 300-400 level courses, 12 in major

<https://catalog.tamu.edu/>
<https://testing.tamu.edu/credits>

Typical first semester schedule for Spring admits

All chemistry majors will build a schedule with these courses or categories

***Mandatory**

§ Enroll in Chemistry Majors Section

Students will enroll in CHEM100 in the Fall

Course	Prerequisites	Course Number	CHEM Sections	CRN	Hrs
**Hullabaloo U. (FR)		FYEX 100			0
**§Chemistry course + lab					
General Chemistry I	none	CHEM119			4
	or				
General Chemistry II	College credit for CHEM119 equivalent	CHEM120	494, 495, 496	37967, 37968, 37969	4
	Or				
Quantitative Analysis + Lab	College credit for CHEM119 & 120 equivalent	CHEM315 + CHEM318	500	18821	4
**Math Course					
Functns Trig & Lnr Stm	MPE Score <22	MATH150			
	or				
Engineering Math I	MPE Score >22 C or better in MATH150	MATH151	n/a		4
	Or				
Calculus I	MPE Score >22 C or better in MATH150	MATH171	n/a		4
Electives	varies				3-6
Total					12-16

FYEX: First Year Experience

- Chance to meet other incoming students
- Get to know faculty/staff
- Learn about campus resources
- Major and career planning

Different Hullabaloo U course if

- Corps of Cadets
- Certain Scholarships
- Certain Residence Life Living/Learning Communities

CHEM 100: Horizons in Chemistry (will take in Fall)

- Weekly meeting of all incoming chemistry majors
- No textbook, exams
- Clicker used for attendance
- Graded on small projects, attendance
- Guest presentations to acquaint you with campus services and career opportunities
 - Library
 - Academic Success Center
 - Study Abroad
 - Chemistry Student Safety Committee
 - Career Center



Recent Former Student Guest Presenters:

- Environmental Scientist, Farmer Environmental group
- Senior Manager, Quality Operations, Just-Evotec Biologics
- Health & Benefits Consulting Pharmacist, Mercer
- Scientist 1 - Surface Science & Chemistry Team; Locus Fermentation Solutions
- Scientist I, Solugen
- Graduate Student in Chemistry PhD program, University of Houston
- Forensic Chemist, NMS Labs
- Senior Research Engineer, 3M
- Medical Student, Baylor College of Medicine
- Medicinal Chemist, Bristol Myers Squibb

Chemistry course options

	CHEM 119	CHEM 120	CHEM 315
Description	General chemistry – 1 st semester	General chemistry - 2 nd semester	Quantitative Analysis
Audience	Anyone	Chemistry Majors	Chemistry Majors
Class size		<48	~50
Section Numbers		497	500
Accompanying Lab (credit hours)	Included in course	Included in course	CHEM 318 (1)
	No college credit for chemistry/do not want to accept college credit	3 on AP exam B or better in CHEM119 equiv.	4-5 on AP exam or B or better in 119/120 equivs.

Expected progress: Chemistry majors must earn Cs or better in year-long sequence

Math course options

	MATH 150 (4)	MATH 151 (4)	MATH 171 (4)
Class	Pre-Calculus	Calc. I	Calc. I
Geared for	Everyone	Engineers	Science/Math
Description		Practical; problem solving; 1 hour at computer	Theoretical; derivations More demanding
Lecture/Lab Hours	3/2	3/2	4/0
Class Size	100/20	100/40	40
Exams		Common Exams at Night	Common Exams at Night
Prerequisite	MPE<22	MPE≥22; passing MATH150	MPE≥22; passing MATH150
Count towards math requirement for chemistry degree?	No	Need a C or better	Need a C or better

Expected progress: Complete two semesters of calculus with Cs or better by end of first year; students who begin in pre-calculus will be given an extra semester

Math options with AP/other credit

	MATH 152 (4)	MATH 172 (4)	MATH 251 (3)	MATH 221 (4)
	Calc 2	Calc 2	Calc 3	Calc 3
Designed for	Engineers	Math/Science (More demanding)	Engineers	Math/Science (More demanding)
Lecture/Lab	3/2	4/0	3/0	3/1
Class Size	110/30	40	105	40
Possible Credit	5 Calculus AB 4 Calculus BC B or better in Calc 1 equiv	5 Calculus AB 4 Calculus BC B or better in Calc 1 equiv	5 Calculus BC B or better in Calc 1 & 2 equivs	5 Calculus BC B or better in Calc 1 & 2 equivs

Must have credit on file at TAMU to enroll – enroll for what you are qualified for at NSC

Must enroll in math every semester until you have completed the requirements for your degree
MATH148 is not offered off-sequence

Common first-semester electives

Do not accept AP credit before discussing it with an advisor

Course	Title	Fulfills	AP Exam (Score)	TCCN
HIST 105	History of the US	US History	US History (3)	HIST1301
HIST 106	History of the US	US History	US History (3)	HIST1302
HIST 226	Texas History	US History		HIST2301
POLS 206	American National Government	Political Science	US Govt & Politics (3)	GOVT2305
POLS 207	State and Local Government	Political Science		GOVT2306
PBSI 107	Introduction to Psychology	SBS	Psychology (3)	PSYC2301
SOCI 205	Introduction to Sociology	SBS		SOCI1301
ANTH 205	Peoples and Cultures of the World	LPC & ICD		
GEOG 202	Geography of the Global Village	LPC & ICD		GEOG1303
GEOG 301	Geography of the U.S.	LPC & ICD		
ENGL104	Composition & Rhetoric	COMM	English (either one) (3)	ENGL1302
ARTS 150	Art History Survey II	CRA & ICD	Art History (4)	ARTS1304

Example schedule

Monday	Tuesday	Wednesday	Thursday	Friday
8am				
8:15				
8:30				
8:45				
9am				
9:15	FYEX-101 GLAS 008 Not Assigned			
9:30				
9:45				
10am				
10:15				
10:30				
10:45				
11am				
11:15				
11:30	HIST-105 AIEN M20 McGlone, Kevin Joseph	HIST-105 AIEN M20 McGlone, Kevin Joseph	HIST-105 AIEN M20 McGlone, Kevin Joseph	
11:45				
12pm				
12:15				
12:30				
12:45	CHEM-119 ILCB 113 Songok, Abigail	CHEM-119 ILCB 113 Songok, Abigail	CHEM-119 ILCB 113 Songok, Abigail	
1pm				
1:15				
1:30				
1:45	MATH-151 HEB 222 Not Assigned	MATH-151 HEB 222 Not Assigned	MATH-151 HEB 222 Not Assigned	
2pm				
2:15				
2:30				
2:45				
3pm				
3:15				
3:30				
3:45				
4pm				
4:15	MATH-151 HELD 109 Not Assigned	MATH-151 HELD 109 Not Assigned	MATH-151 HELD 109 Not Assigned	
4:30				
4:45				
5pm				
5:15				
5:30				
5:45	POLS-206 BLOC 102 Bond, Jon	POLS-206 BLOC 102 Bond, Jon		
6pm				
6:15				
6:30				
6:45				
7pm				
7:15				
7:30				

- 3 hr. Lecture Patterns:
 - MWF - 50 min.
 - MW or TR - 75 min.
- Chem. Labs 170 min.
- 20 min between classes

Main Campus
MWF
8 – 8:50
9:10 -10:00
10:20 – 11:10 etc.

TR
8 – 9:15
9:35- 10:50
11:10 – 12:25 etc.

Howdy has Registration Info



Registration Readiness

Prepare early for registration by completing all required steps



Must update each semester to be eligible to register



Aggie Schedule Builder

Register for courses and perform add/drop actions.



Will bring you to registration tools



These links tell you what college credit that we are aware of



My Academic Record

Registration history and unofficial transcript (PDF)



Credit by Examination

Claim credit(s) for test scores



Building a Schedule

1.



Select Term

- Fall 2025 - College Station
- Fall 2025 - Galveston
- Fall 2025 - Qatar
- Fall 2025 - Half Year Term
- Full Yr Professional 2025-2026
- Spring 2026 - College Station
- Spring 2026 - Galveston
- Spring 2026 - Half Year Term

[Cancel](#)

[✓ Save](#)

2

Term	Spring 2026 - College Station	Change
Sessions	1 of 2 Selected	Change
Course Status	Open Classes Only	Change
Instruction Modes	All Instruction Modes Selected	Change

3. Courses

[+ Add Course](#)

Instructions

1. Choose semester and campus
2. Refine choices
 1. Course Status: Open Classes Only
 2. Sessions: Spring 2026 Semester Only (*not* Spring 2026 Minimester)
3. Click on Add Courses

Add Courses

Add Courses for Spring 2026 - College Station

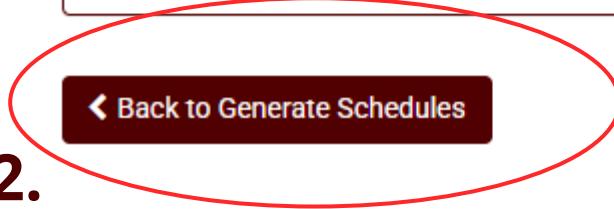
By Subject By Section Attributes By Instructor By CRN Degree Planner

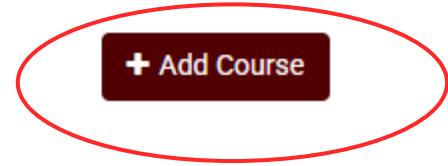
Subject: CHEM - Chemistry

Course: 228 Organic Chemistry II

CHEM - Chemistry 228 - Organic Chemistry II

(CHEM 2325, 2425*) Organic Chemistry II. (3-0). Credit 3. Continuation of CHEM 227. Prerequisite: CHEM 227; concurrent registration in CHEM 238 is suggested; also taught at Galveston and Qatar campuses.

2.  [Back to Generate Schedules](#)

1.  [+ Add Course](#)

1. Easiest to add by subject if you know course number
Add
CHEM
MATH
FYEX
+ 2 electives

2. Then click on Back to Generate Schedules

Refine Sections

Courses

+ Add Course

Select All

CHEM 119
Fundamentals of Chemistry I

 Sections   

FYEX 101
First Year Experience
Topic: HULLABALOO U

 Sections   

HIST 105
History of the United States

 Sections   

MATH 151
Engineering Mathematics I

 Sections   

Prerequisites

POLS 206
American National Government

 Sections   

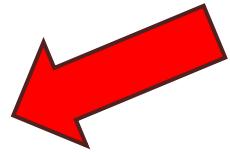
Click on gear icon to refine section selection.

Make sure to **de-select**

- Sections offered in McAllen (M sections)
- Restricted sections (to other majors, programs)
- Honors sections (200 sections)
- Distance-education 700 sections*

INSTRUCTOR: Foran, Alexandra Lail										Th 7:30pm - 9:30pm 04/17/2025 - 04/17/2025	
<input checked="" type="checkbox"/>		36430	MATH	151	M01	4	123	Traditional Face-to-Face (F2F)	Th 7:30pm - 9:30pm 03/20/2025 - 03/20/2025	3 More	
<p>Prerequisites    Instructor: Olvera, Hugo</p>											

Build Schedules



Schedules

Advanced Options View Schedules

Generate Schedules Shuffle

Generated 36 Schedules

Compare Select at least two schedules to compare side by side

View	1	119-CHEM-513, 101-FYEX-500, 105-HIST-505, 151-MATH-527, 206-POLS-504
View	2	119-CHEM-501, 101-FYEX-500, 105-HIST-504, 151-MATH-518, 206-POLS-504
View	3	119-CHEM-513, 101-FYEX-500, 105-HIST-504, 151-MATH-516, 206-POLS-504
View	4	119-CHEM-502, 101-FYEX-500, 105-HIST-504, 151-MATH-516, 206-POLS-504
View	5	119-CHEM-501, 101-FYEX-500, 105-HIST-504, 151-MATH-516, 206-POLS-504
View	6	119-CHEM-513, 101-FYEX-500, 105-HIST-504, 151-MATH-522, 206-POLS-504
View	7	119-CHEM-502, 101-FYEX-500, 105-HIST-504, 151-MATH-522, 206-POLS-504
View	8	119-CHEM-502, 101-FYEX-500, 105-HIST-504, 151-MATH-518, 206-POLS-504
View	9	119-CHEM-501, 101-FYEX-500, 105-HIST-504, 151-MATH-522, 206-POLS-504
View	10	119-CHEM-502, 101-FYEX-500, 105-HIST-504, 151-MATH-511, 206-POLS-504
View	11	119-CHEM-501, 101-FYEX-500, 105-HIST-504, 151-MATH-511, 206-POLS-504
View	12	119-CHEM-513, 101-FYEX-500, 105-HIST-504, 151-MATH-510, 206-POLS-504
View	13	119-CHEM-502, 101-FYEX-500, 105-HIST-504, 151-MATH-510, 206-POLS-504

After refining section selection click on generate schedules

Preview schedules

Send your favorite to the shopping cart

During registration, open your shopping cart and click on register

Potential Schedule for Spring College Station

Back Print Email Send to Shopping Cart Schedule 1 of 36

You are viewing a potential schedule only and you must still register.

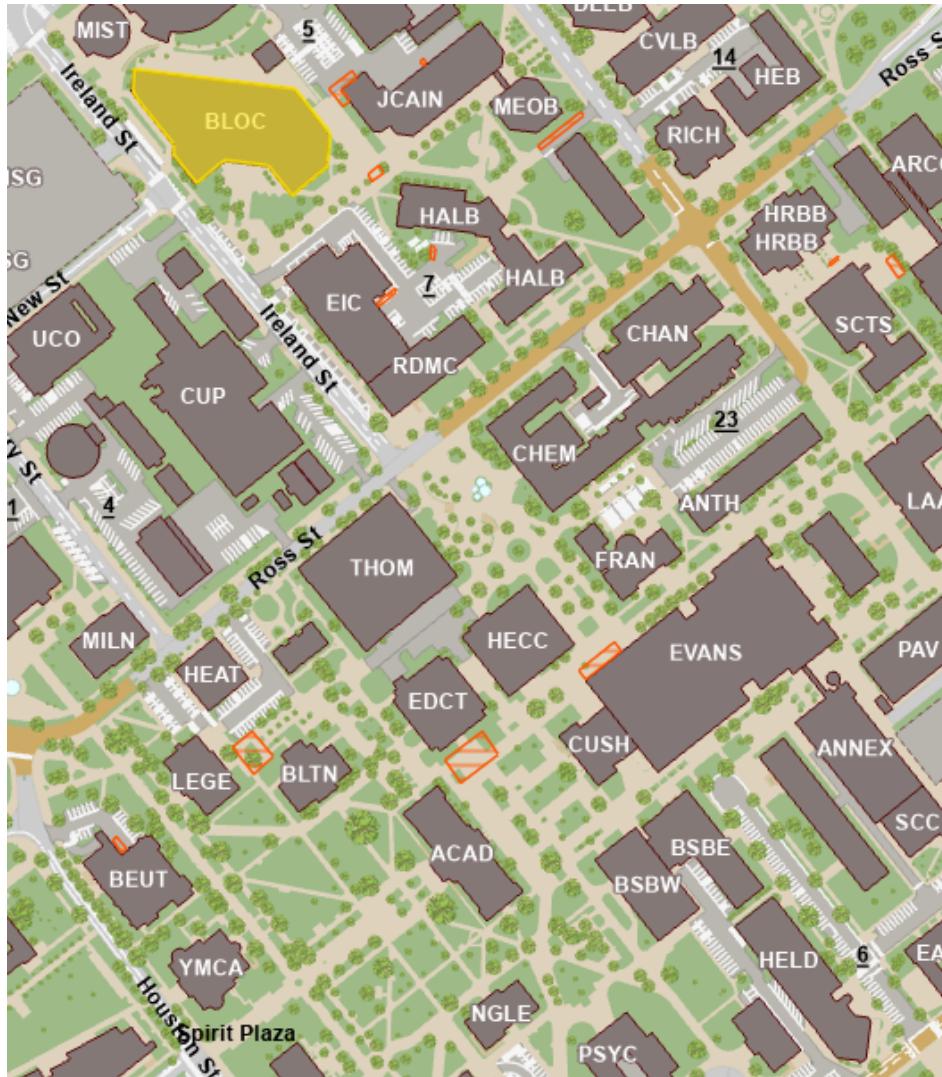
Color	Info	Status	CRN #	Subject	Course	Section	Credits	Seats Open	Instruction Mode	Day(s) & Location(s)
		Not Enrolled	38036	CHEM	119	513	4	2	Traditional Face-to-Face (F2F)	Th 8:00am - 10:50am 01/15/2026 - 04/30/2026 ILSQ E200 MWF 12:40pm - 1:30pm 01/12/2026 - 05/04/2026 ILCB 113
Instructor: Songok, Abigail										
		Not Enrolled	44092	FYEX	101	500	0	0	Traditional Face-to-Face (F2F)	M 9:10am - 10:00am 01/12/2026 - 05/04/2026 GLAS 008
Instructor: Not Assigned										
		Not Enrolled	33164	HIST	105	505	3	36	Traditional Face-to-Face (F2F)	MWF 11:30am - 12:20pm 01/12/2026 - 05/04/2026 AIEN M207
Instructor: McGlone, Kevin Joseph										
		Not Enrolled	45917	MATH	151	527	4	3	Traditional Face-to-Face (F2F)	Th 7:30pm - 9:30pm 04/16/2026 - 04/16/2026 Th 7:30pm - 9:30pm 03/19/2026 - 03/19/2026 3 More
Prerequisites										
Instructor: Not Assigned										
		Not Enrolled	45661	POLS	206	504	3	63	Traditional Face-to-Face (F2F)	MW 5:45pm - 7:00pm 01/12/2026 - 05/04/2026 BLOC 102
Instructor: Bond, Jon										

14

NEXT AT YOUR NSC: MEET with advisor

- Individual meetings after general presentation: ~15-20 min
- Will review Aggie Schedule Builder.
- Can answer quick questions, but not the time for long range planning

Registration



Students:

- Come to Blocker (room 125) by 3:15 p.m.
- Login to <https://howdy.tamu.edu/>
- Bring up your schedule from Shopping Cart.
- Choose Register at exactly 3:30 p.m. TAMU time
- You will know immediately what courses you were registered for

Family: Family meeting at 3:15 in BSBE 115

CRN #	Subject	Course	Section	Credits	Seats Open	Instruction Mode	Day(s) & Location(s)
38026	CHEM	119	502	4	0	Traditional Face-to-Face (F2F)	T 8:00am - 10:50am 01/14/2025 - 05/06/2025 E215 MWF 12:40pm - 1:30pm 01/13/2025 - 05/05/2025 ILCB 113
48478	FYEX	101	504	0	25	Traditional Face-to-Face (F2F)	T 3:55pm - 4:45pm 01/14/2025 - 05/06/2025 EDCT 569
11084	HIST	105	506	3	66	Traditional Face-to-Face (F2F)	MWF 3:00pm - 3:50pm 01/13/2025 - 05/05/2025 AIEN M207
11422	MATH	151	522	4	0	Traditional Face-to-Face (F2F)	Th 7:30pm - 9:30pm 04/17/2025 - 04/17/2025 ILCB 111 Th 7:30pm - 9:30pm 03/20/2025 - 03/20/2025 ILCB 111 3 More
Prerequisites							
11917	POLS	207	501	3	95	Traditional Face-to-Face (F2F)	MWF 8:00am - 8:50am 01/13/2025 - 05/05/2025 ILCB 113

Registration Errors

- Common registration errors
 - **Student Attribute error:** didn't accept lab safety agreement or are trying to register for a restricted class (honors)
 - **Closed section:** no seats are available
 - **Prerequisite/test score error:** you don't have (or didn't successfully register for) co- or prerequisite course
 - **Department/major/field of study restriction:** section is limited to students of a certain major
 - **Time conflict:** course overlaps with a course you are already registered for

AFTER REGISTRATION

Before you are finished with NSC, check in with advisor
We will check over your schedule

Questions Later?

Contact Advisor at advising@chem.tamu.edu from TAMU email
Include Name & UIN

Thanks & Gig 'em!

Contact Us



104 Chemistry Building



979.845.0520



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