



Chemistry Undergraduate Programs Office



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Program Coordinator
104 Chemistry Building

Use Navigate system in howdy portal to schedule Zoom appointments.

Dr. Mawk: https://tamu.campus.eab.com/pal/ir_hXOX98l
Dr. Gaede: https://tamu.campus.eab.com/pal/rj2QZMlbYz

advising@chem.tamu.edu

p.m.

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

Contact Us



• 104 Chemistry Building



• (979) 845-0520



• advising@chem.tamu.edu





• @tamu.chemistry



OTAMUChemistry

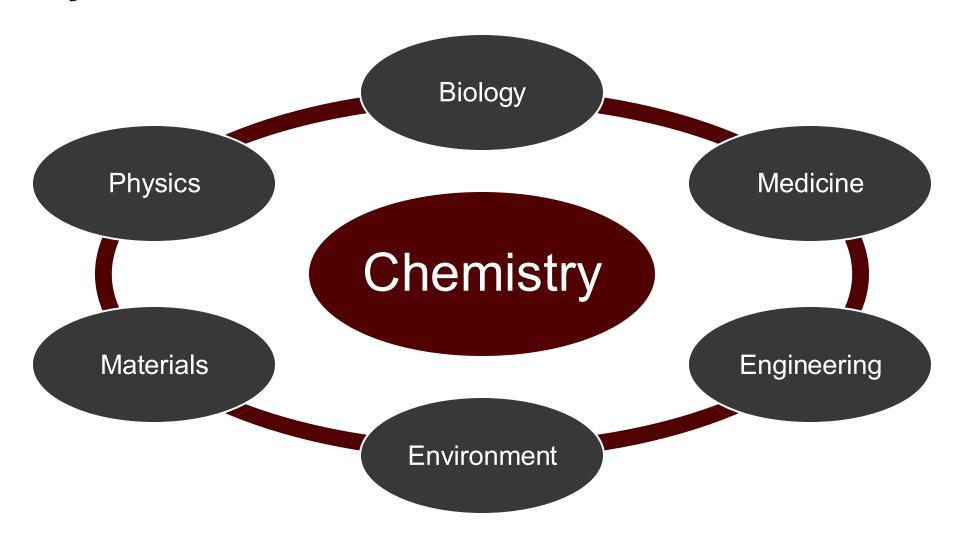


• @TAMUChemistry



• @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 2024
- >6000 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) | PERCENTILE | 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 Webbe

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/undergraduat e/arts-and-sciences/chemistry/#text

Course Descriptions

Prerequisites

https://catalog.tamu.edu/undergraduat
e/course-descriptions/

Appendix

Texas Common Course Numbering System

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



https://catalog.tamu.edu/

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 |

https://catalog.tamu.edu/

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

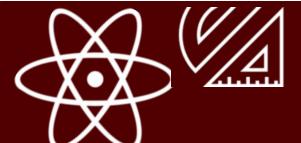
- Up to 6 credits from CHEM 119H; CHEM 120H; CHEM 227H; CHEM 228H
- Up to 6 credits from any 300 and 400 level CHEM Honors course (not including CHEM 491H)
- No more than 6 credits from 600 level CHEM courses (credit must count toward undergraduate credit)
- 6 credits of CHEM 491H, including an Honors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

https://www.chem.tamu.edu/undergraduate/honors-program/





aggieTEACH

COLLEGE OF ARTS & SCIENCES



LEARN



Double your career potential by obtaining a Texas middle and high school teaching certificate as you earn your degree.

TEACH

100%

of our students who want to teach find jobs upon graduation!



IMPACT



Next Step

ARSC201

Visit the website or email aggieteach-artsci@tamu.edu



CHEMISTRY COURSE requirements

• CHEM 119 & 120 Gen Chem CHEM227/231 & CHEM228/234* Organic Physical CHEM327 & CHEM328 OR CHEM321 (BA); CHEM325 & CHEM326 CHEM315/318 and CHEM415/434 (required for BS ONLY) Analytical CHEM362/433 (required for BS ONLY) Inorganic • 2-3 courses; many choices (BS majors seeking ACS cert. choose BICH410) Advanced CHEM100 & CHEM481* Seminar CHEM491 (required for BS ONLY) Research

^{*} Writing/Communication Intensive

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

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

*Mandatory § Enroll in Chemistry Majors Section

| Course | Perequisites | Course Number | CHEM Sections | CRN | Hrs |
|---------------------------------------|--------------------------------------------------------------------|----------------------------|------------------|-------|-------|
| **Hullabaloo U. (FR) | | ARSC101 | 551-553 | | 0 |
| **§Chemistry course + l | ab | | | | |
| General Chemistry I | Completion of CHEMPREP module | CHEM119 (4) | 494- 497 | | 4 |
| | or | | | | |
| Organic Chemistry I | College credit for CHEM120 equivalent | CHEM227 (3) CHEM231 (2) | 501 | 10700 | 4 |
| | or | | | | |
| **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 |
| | or | | | | |
| Calculus I for Biological Sciences | MPE Score >22 C or better in MATH150 BA students only | MATH147 | | | 4 |
| Electives | varies | | | | 3-6 |
| Total | | | | | 12-16 |

FYEX: ARSC101 Hullabaloo U

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

Different Hullabaloo U course if

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







| Dr. Daniel Collins | Ms. Sandra Horton | Dr. Joanna San Pedro |
|--------------------|--------------------|----------------------|
| Tues. 3:55-4:45 | Wed. 3 – 3:50 | Wed. 11:30-12:20 |
| 54515 | 54516 | 58578 |
| Section 551 | Section 552 | Section 553 |
| | First Gen Students | |

CHEM 100: Horizons in Chemistry

- 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

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

| | CHEM 119 | CHEM 120 | CHEM 227 |
|---------------------------------|----------------------------------------------------------------------|--------------------------------------------------|--------------------------------------------------|
| Description | General chemistry – 1 st semester | General chemistry - 2 nd semester | Organic Chemistry I |
| Audience | Majors | Everyone | Chemistry Majors |
| Class size | ~50 | 300-600 | ~50 |
| Section Numbers | 494-497 | | 501 |
| Accompanying Lab (credit hours) | Included in course | Included in course | CHEM 231 (2) |
| | 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. |

Math course options

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 150 (4) | MATH 151 (4) | MATH 171 (4) | MATH147 (4) |
|------------------------------------------------------|--------------------------------------------------|------------------------------------------------|--------------------------------------------|----------------------------------------------------------|
| Class | Functions, Trigonometry and Linear Systems | Engineering Mathematics I | Calculus I | Calculus I for Biological Sciences |
| Geared for | Everyone | Engineers | Science/Math | Scientists interested in biology |
| Description | Pre-calculus | Practical; problem solving; 1 hour at computer | Theoretical; derivations Most demanding | Emphasizes applications in the biological sciences |
| Lecture/Lab Hours | 3/2 | 3/2 | 4/0 | 3/2 |
| Class Size | 100/30 | 300/40 40 | | 90/30 |
| 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 | For BA students only Need a C or better |

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/L ab | 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 1equiv | 5 Calculus BC B or better in Calc 1 & 2 equivs | 5 Calculus BC B or better in Calc 1 & 2 equivs |
| Must have | redit on file at TAMLI to | onroll onroll for | what you are gua | lified for at NSC |

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

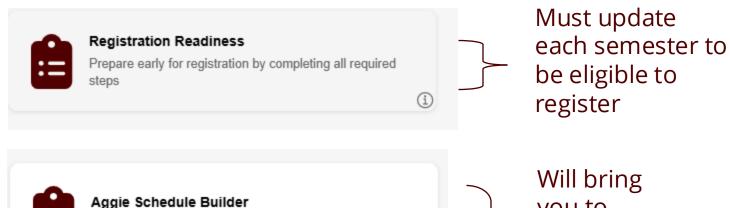
Must enroll in math every semester until you have completed the requirements for your degree MATH148 is not offered off-sequence

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 |

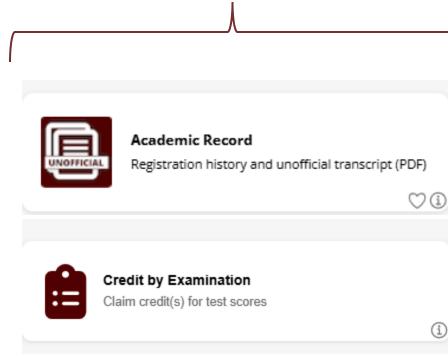
Howdy has Registration Info



Register for courses and perform add/drop actions.

Will bring you to registration

tools

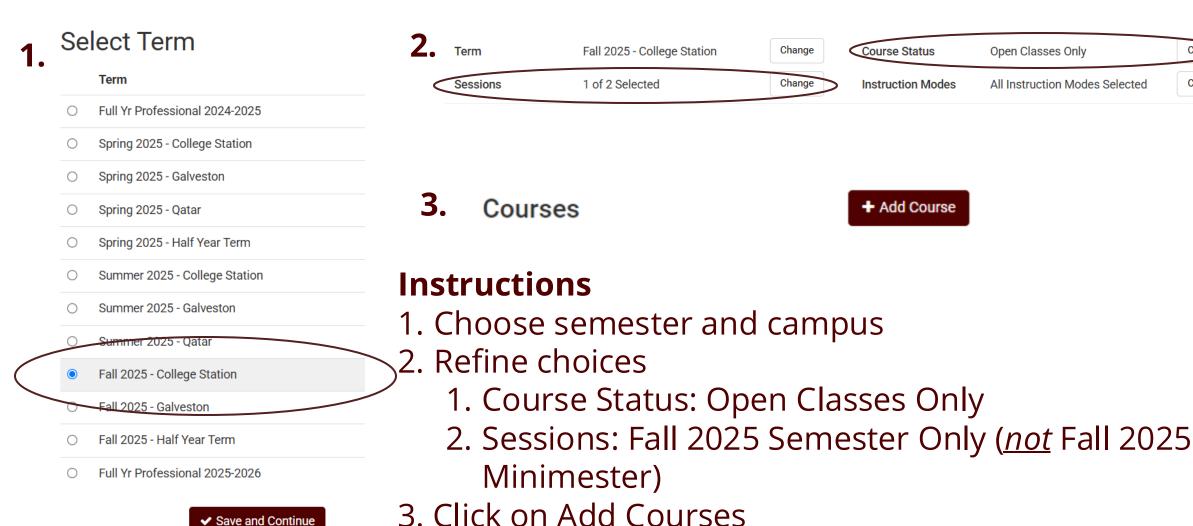


These links tell you what college

Build a Schedule through Aggie Schedule Builder

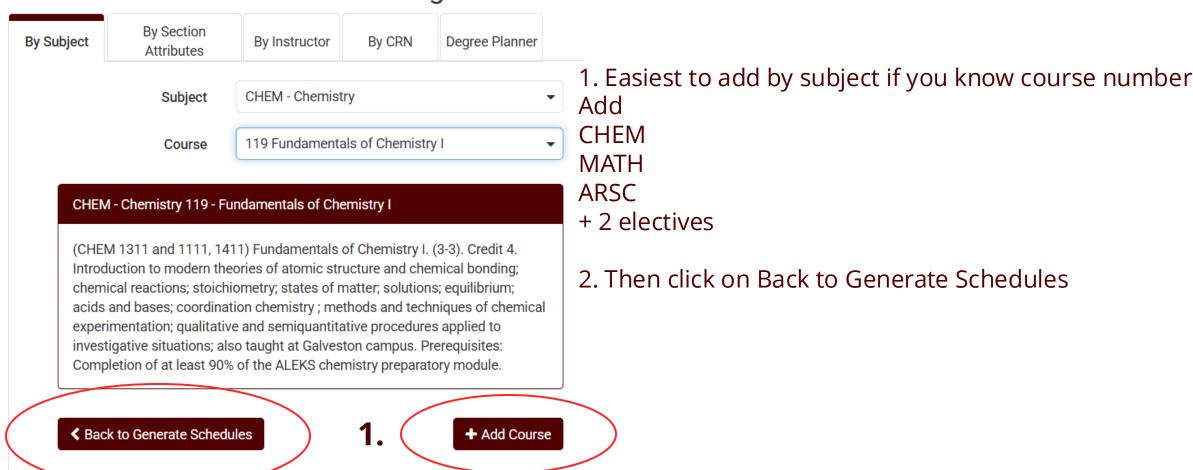
Change

Change

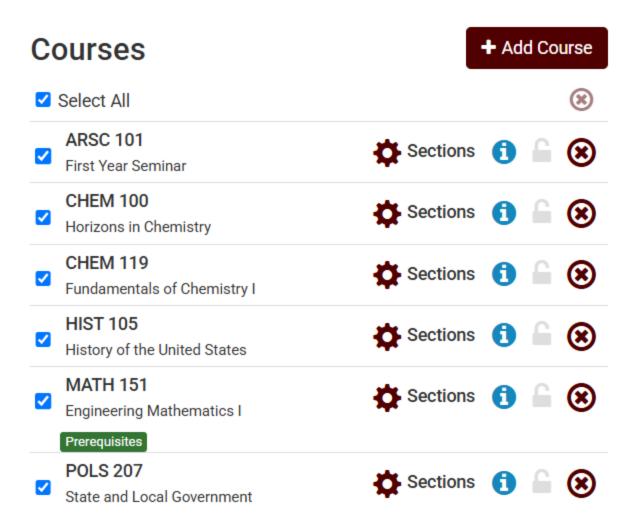


Add Courses

Add Courses for Fall 2025 - College Station

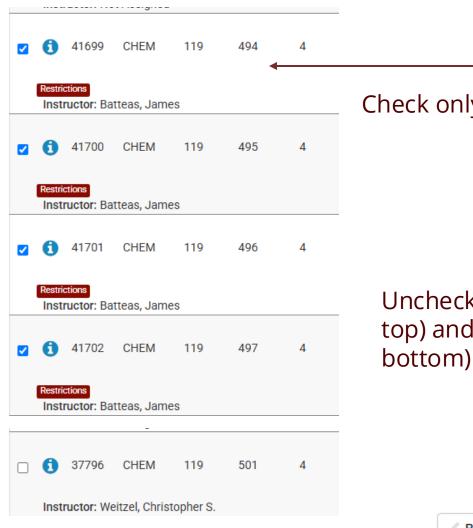


Refine Schedule



- 1. For each course in turn, click c 🏠 Sections
- 2. Make sure only eligible sections are selected
 - For CHEM, ARSC select ONLY CHEM majors sections
 - 2. If not in honors program, de-select any section numbers in 200s
 - 3. De-select any courses that are restricted to other majors
 - 4. De-select any section that starts with M
 - 5. De-select any section that starts with 700 if you don't want to pay distance education fees

Section View

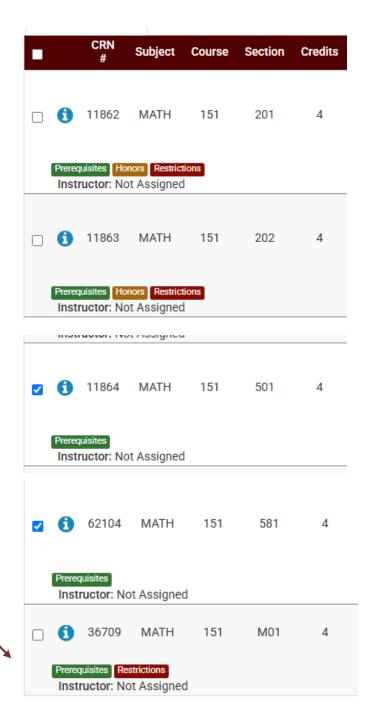


Check only CHEM Majors Sections

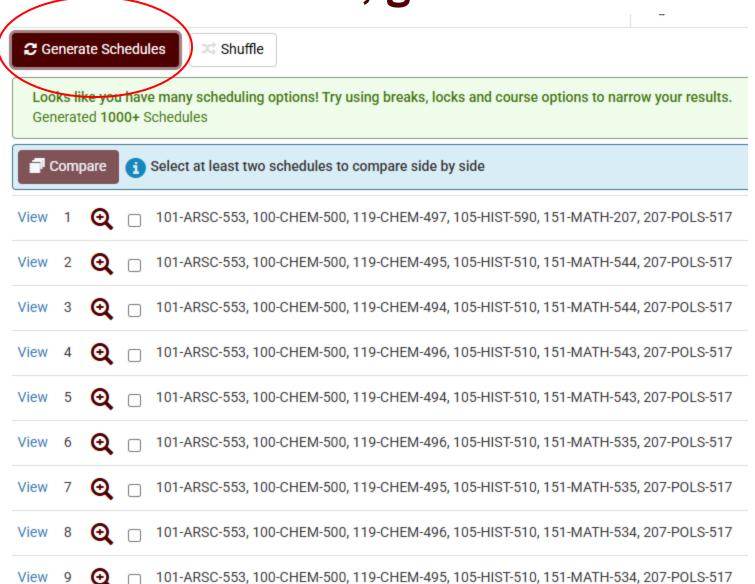
Uncheck Honors Sections (at top) and McAllen Sections (at

✓ Save & Close

Back



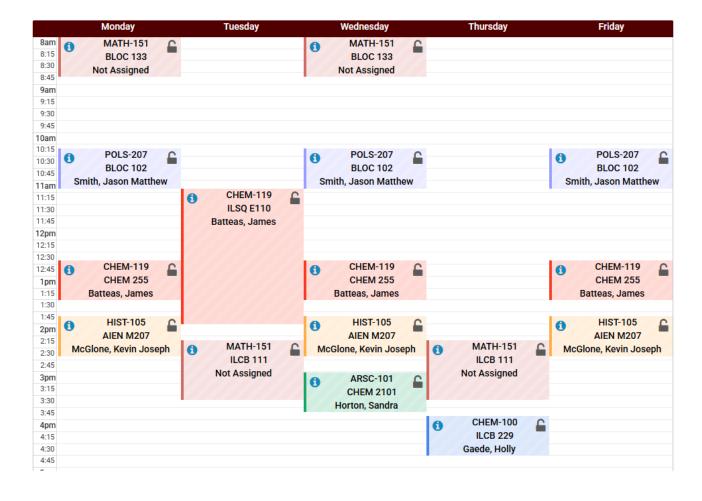
After refinement, generate schedules



Send your favorite to shopping cart



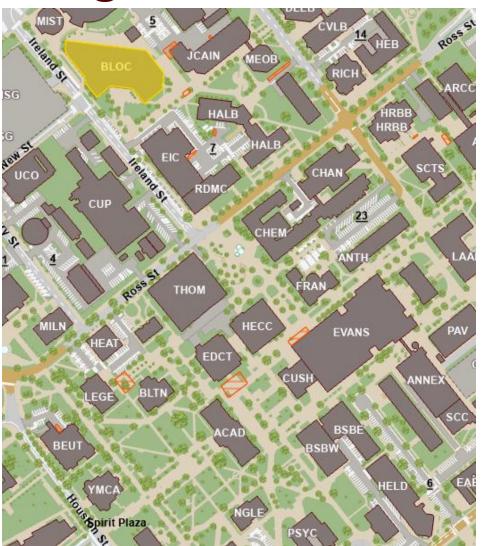
| | | | Status | CRN # | Subject | Course | Section | Credits | Seats Open | Instruction Mode | Day(s) & Location(s) |
|---|------|----------------------------|-----------------|------------|---------|--------|---------|---------|---------------|------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| | 0 | <u></u> | Not Enrolled | 54516 | ARSC | 101 | 552 | 0 | 25 | Traditional Face-to- Face (F2F) | W 3:00pm - 3:50pm 08/27/2025 - 12/10/2025 CHEM 2101 |
| | | ctions tructo | r: Horton, S | andra | | | | | | | |
| | 0 | | Not Enrolled | 10521 | CHEM | 100 | 500 | 1 | 44 | Traditional Face-to- Face (F2F) | Th 3:55pm - 4:45pm 08/28/2025 - 12/11/2025 ILCB 229 |
| | | ctions tructo | r: Gaede, H | olly | | | | | | | |
| | 1 | <u>_</u> | Not Enrolled | 41700 | СНЕМ | 119 | 495 | 4 | 0 | Traditional Face-to- Face (F2F) | T 11:10am - 2:00pm 08/26/2025 - 12/16/2025 ILSQ E110 MWF 12:40pm - 1:30pm 08/25/2025 12/15/2025 CHEM 255 |
| | | ctions | r: Batteas, | James | | | | | | | |
| | 0 | | Not Enrolled | 47204 | HIST | 105 | 510 | 3 | 165 | Traditional Face-to- Face (F2F) | MWF 1:50pm - 2:40pm 08/25/2025 - 12/15/2025 AIEN M207 |
| | Inst | ructo | r: McGlone | , Kevin Jo | oseph | | | | | | |
| | 1 | <u>_</u> | Not Enrolled | 49428 | МАТН | 151 | 570 | 4 | 16 | Traditional Face-to- Face (F2F) | Th 7:30pm - 9:30pm 11/20/2025 - 11/20/2025 ILCB 111 Th 7:30pm - 9:30pm 10/23/2025 - 10/23/2025 ILCB 111 |
| | | | | | | | | | | | 3 More |
| | _ | quisites t ructo | r: Not Assi | gned | | | | | | | |
| 0 | 0 | <u>_</u> | Not Enrolled | 45752 | POLS | 207 | 508 | 3 | 1 | Traditional Face-to- Face (F2F) | MWF 10:20am - 11:10am 08/25/2025 12/15/2025 BLOC 102 |
| | Inst | ructo | r: Smith, Ja | son Mat | thew | | | | | ` ' | |
| | | | | | | | | 15 | | | |
| | | | | | | | | | | | |



Next at Your NSC: Meet With Advisor

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

Registration



Students:

- Come to Blocker (room 125) by 1:45 p.m.
- Login to https://howdy.tamu.edu/
- Bring up your schedule from Shopping Cart.
- Choose Register at exactly 2:00 p.m. TAMU time
- You will know immediately what courses you were registered for

Family: Family meeting at 1:30 in Halbouty 101

| | | | | | | | | ⊠ Er | nail |
|------|---------|-----------|-------------|------------|---------|---------|---------------|-----------------------------------|--------------------------------------------------------------------------------------------------------------|
| | | CRN # | Subject | Course | Section | Credits | Seats Open | Instruction Mode | Day(s) & Loca nn(s) |
| | Restric | 54516 | ARSC | 101 | 552 | 0 | 25 | Traditional Face-to-Face (F2F) | W 3:00pm - 3:50pm 08/27/2029 2/10/2025 CHEM 2101 |
| | | | orton, Sand | ra | | | | | |
| | 0 | 10521 | CHEM | 100 | 500 | 1 | 44 | Traditional Face-to-Face (F2F) | e Th 3:55pm - 4:45pm 08/28/2025 - 12/11/2025 ILC 229 |
| | Restric | | aede, Holly | | | | | | |
| ow S | | Details | , | | | | | | T 11:10am - 2:00pm 08/26/2025 - 12/16/2025 ILS |
| | 0 | 41700 | CHEM | 119 | 495 | 4 | 0 | Traditional Face-to-Face (F2F) | E E110 MWF 12:40pm - 1:30pm 08/25/2025 - 12/15/202 CHEM 255 |
| | Insti | | atteas, Jam | es 105 | 510 | 3 | 165 | Traditional Face-to-Face | e MWF 1:50pm - 2:40pm 08/25/2025 - 12/15/202 |
| | | | | | | 3 | 103 | (F2F) | AIEN M207 |
| | Insti | uctor: M | cGlone, Ke | /in Joseph | l | | | | Th 7:00 0:00 11 (00 (0005 11 (00 (0005 II) |
| | • | 49428 | MATH | 151 | 570 | 4 | 16 | Traditional Face-to-Face (F2F) | Th 7:30pm - 9:30pm 11/20/2025 - 11/20/2025 IL 111 Th 7:30pm - 9:30pm 10/23/2025 - 10/23/2025 IL 111 |
| | | | | | | | | | 3 More |
| | Prereq | | ot Assigned | i | | | | | |
| | 0 | 45752 | POLS | 207 | 508 | 3 | 1 | Traditional Face-to-Face (F2F) | MWF 10:20am - 11:10am 08/25/2025 - 12/15/20 BLOC 102 |
| | Insti | uctor: Sn | nith, Jason | Matthew | | | | | |
| | | | | | | 15 | | | |

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

Complete Part 2 of Online Orientation — Access After August 1

WHERE AM I DINING DURING NSC?

Scan the QR CODE for the full dining guide or visit tx.ag/NSCDining





Dining Locations Near Us:

CHICK-FIL-A SBISA UNDERGROUND
WHOOP COOP The Pavilion (PAV)
PANDA EXPRESS POLO ROAD GARAGE



College of Arts & SciencesPrograms and Services Open House

Free snacks and swag!

Discover what's possible in the College of Arts & Sciences

NSC Day 2

11:00am - 1:00pm
Academic Building



ArtSci Study Abroad



aggieTEACH



Career Center



First 2 Finish



Health Services

Come learn about the ArtSci tailored resources that help students grow, connect, and achieve their goals





Follow us on social! @tamuartsci











Friday, August 22, 2025 10 a.m. - 1 p.m. **Instructional Laboratory and Innovative Learning Building** (ILSQ)

Join the College of Arts and Sciences for our 2025 Howdy Week event!

Department Booths! Demonstrations! Food Trucks! and MORE!

Watch for our email with more information!



Thanks & Gig 'em!

Contact Us



979.845.0520

advising@chem.tamu.edu

Follow Us







