AGENDA

• Department Information (families welcome) ~ 11 am
• Picture (before leaving for lunch)
• Lunch Break ~ 12 noon
• Schedule Building – 1 pm (students only)
• Registration – 2:30 pm (students only)
• Building Tour – after all are done registering (families welcome)
• Out ~ 3:30
AP AND DUAL CREDITS
You have the option to accept credits based on your score. There is no urgency to accept credits, you must do so before you apply for graduation.

We suggest:

- Cal AB test – begin in MATH 171
- Cal BC test – begin in MATH 171 or 172
- Physics C: Mechanics and/or Electricity and Magnetism – begin in PHYS 206/226
- Most other credits are fine; please discuss with an advisor before accepting.
- PHYS 1 and 2 award credit for PHYS 201 and 202 (algebra-based), respectively, and cannot be used in a Physics Degree.
- Our suggestions are based on experience with previous students. You must make your own decision about accepting AP credits.
DUAL CREDIT
(HANDOUT IN YOUR FOLDER)

Texas law requires that transcripts from all college level classes be reported to each school you attend. You do not have the option to accept dual credit courses.

Courses taken through dual credit will not affect your TAMU GPA.

We suggest:
• Retake the last calculus class you took.
• Start in PHYS 206/226
• Other dual credit courses that meet core requirements are acceptable.
• As noted with AP credit, the decision of which courses to use and which to retake is yours.
CHOOSING COURSES
The Core Curriculum = 42 hours. Many students meet the requirements through AP, dual credit or summer courses.

**Required Core Areas:**
- Communication
- Mathematics (met within major)
- Life and Physical Sciences (met within major)
- American History
- Government/Political Science
- *Language, Philosophy and Culture
- *Creative Arts
- *Social and Behavioral Science

*Lang., Phil. And Cult., Creative Arts, and Social and Behavioral Science classes often count for the 6 hour International and Cultural Diversity Credits as well. Look for bolded courses.

Please note – a course cannot count in 2 core areas.
CLASS REGISTRATION

• First semester courses:
  
  CHEM 107/117
  MATH 150 or 171*
  
  SCEN 289 (some students will take a different FYE course)
  PHYS 101

  *MPE Scores 1 – 21 will take MATH 150, 22 – 33 will take MATH 171

• Students with credit for MATH 151/171 or higher may take PHYS 206/226 in the fall. There are benefits to waiting, but only you can make the decision.

• Other classes as appropriate based on interests, future plans, and credits previously earned.

• 12 credit hours is considered full-time for university and financial aid purposes. Most students take between 12 and 15 hours their first semester.
# Degree Plans for Physics (Handout in Your Folder)

## Bachelor of Science Degree – Catalog 142 (2019 – 2020)

### Freshman Year

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Ch/DH</th>
<th>Cr</th>
<th>Second Semester</th>
<th>Ch/DH</th>
<th>Cr</th>
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<tbody>
<tr>
<td>PHYS 101 Statics &amp; Calculus 1</td>
<td>4.0</td>
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<td>PHYS 102 Statics &amp; Calculus 2</td>
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<tr>
<td>MATH 202 Linear Algebra</td>
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<td>PHYS 201 General Physics</td>
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<td>PHYS 304 Lab: Statics &amp; Calculus 1</td>
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<td>CHEM 103 Inorganic Chemistry</td>
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<tr>
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**Sophomore Year**

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<th>Ch/DH</th>
<th>Cr</th>
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<tr>
<td>PHYS 203 Wave Motion</td>
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<td>PHYS 204 Optics &amp; Thermodynamics</td>
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<tr>
<td>MATH 203 Advanced Calculus</td>
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<td>PHYS 206 Molecular Physical Systems</td>
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<tr>
<td>PHYS 306 Lab: Mechanics</td>
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<td>MATH 204 Advanced Calculus</td>
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<tr>
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<td>ELECT 201 Elective</td>
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**Junior Year**

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<th>Second Semester</th>
<th>Ch/DH</th>
<th>Cr</th>
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<tr>
<td>PHYS 204 Electromagnetism</td>
<td>4.0</td>
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<td>PHYS 205 Quantum Mechanics</td>
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<td>4</td>
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<tr>
<td>PHYS 207 Quantum Mechanics</td>
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<td>PHYS 307 Quantum Mechanics</td>
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<td>MATH 206 Advanced Calculus</td>
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<td>ENGL 113 English Composition</td>
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## Bachelor of Arts Degree – Catalog 142 (2019 – 2020)

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<th>Second Semester</th>
<th>Ch/DH</th>
<th>Cr</th>
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<td>PHYS 302 Lab: Statics &amp; Calculus 1</td>
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<td>PHYS 104 Wave Motion &amp; Optics</td>
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<td>PHYS 105 Quantum Mechanics &amp; Thermodynamics</td>
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<td>PHYS 305 Lab: Statics &amp; Calculus 2</td>
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<tr>
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**Sophomore Year**

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<th>Ch/DH</th>
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<td>PHYS 203 Wave Motion</td>
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<tr>
<td>MATH 203 Advanced Calculus</td>
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<td>PHYS 204 Optics &amp; Thermodynamics</td>
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<td>MATH 204 Advanced Calculus</td>
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<td>ELECT 201 Elective</td>
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**Junior Year**

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<th>Second Semester</th>
<th>Ch/DH</th>
<th>Cr</th>
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</thead>
<tbody>
<tr>
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<td>4</td>
<td>PHYS 205 Quantum Mechanics</td>
<td>4.0</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 304 Lab: Electricity &amp; Magnetism</td>
<td>1.0</td>
<td>1</td>
<td>PHYS 206 Molecular Physical Systems</td>
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<td>4</td>
</tr>
<tr>
<td>MATH 205 Advanced Calculus</td>
<td>3.0</td>
<td>3</td>
<td>PHYS 207 Quantum Mechanics</td>
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<td>4</td>
</tr>
<tr>
<td>PHYS 307 Quantum Mechanics</td>
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<td>1</td>
<td>MATH 206 Advanced Calculus</td>
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<td>3</td>
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<tr>
<td>ENGL 113 English Composition</td>
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<td>3</td>
<td>ELECT 301 Elective</td>
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<td>3</td>
</tr>
</tbody>
</table>

## Notes

1. A student must earn a grade of "C" or better in all required and selected courses to be awarded the degree.
2. A student must earn a grade of "C" or better in the entire freshman year and first-year courses to be awarded the degree.
3. A student must earn a grade of "C" or better in the entire sophomore year and second-year courses to be awarded the degree.
4. A student must earn a grade of "C" or better in the entire junior year and third-year courses to be awarded the degree.
5. A student must earn a grade of "C" or better in the entire senior year and fourth-year courses to be awarded the degree.
6. A student must earn a grade of "C" or better in the entire first-year and second-year courses to be awarded the degree.
7. A student must earn a grade of "C" or better in the entire junior year and senior year courses to be awarded the degree.
8. A student must earn a grade of "C" or better in the entire sophomore and senior year courses to be awarded the degree.
9. A student must earn a grade of "C" or better in the entire junior and senior year courses to be awarded the degree.
10. A student must earn a grade of "C" or better in the entire junior and senior year courses to be awarded the degree.
11. A student must earn a grade of "C" or better in the entire junior and senior year courses to be awarded the degree.
12. A student must earn a grade of "C" or better in the entire junior and senior year courses to be awarded the degree.
13. A student must earn a grade of "C" or better in the entire junior and senior year courses to be awarded the degree.
DEPARTMENT OF PHYSICS AND ASTRONOMY POLICIES AND COMMUNICATION PREFERENCES

(HANDOUTS IN YOUR FOLDER)

Physics and Astronomy Advising Communication Preferences

Name: ____________________________  UIN: ____________________________

All students will receive University communication through the preferred university email, netid@email.tamu.edu. Check it often.

The first contact attempt from P&A Advising will always be email. If we do not receive a response, we will contact you by phone call or text message, with your permission. Please mark whether we can call or text you, and mark a 1st and 2nd choice if you like.

☐ Text Message
☐ Phone Call

Please fill in the relevant information based on your preferences:

Cell Phone Number: ____________________________  Cell Provider, e.g. AT&T (for text messages): ____________________________

I understand that these contact preferences will remain in effect for the duration of my attendance at TAMU, unless I notify Physics and Astronomy Advising of changes.

Signature: ____________________________  Date: ____________________________

*Physics and Astronomy Advising will not send confidential information via text message. Messages will contain only general information, or a request for you to initiate contact.

I verify that I have read and understand the above information

Name: ____________________________  UIN: ____________________________

Signature: ____________________________

Date: ____________________________
DEPARTMENT AND UNIVERSITY RESOURCES
The CSG can help with:

- card access
- your personal electronic device
- basic audiovisual support in our classrooms

Email csg@physics.tamu.edu

The CSG cannot help with:

- NetID
- TAMU email
- TAMU wireless internet.

Email helpdesk.tamu.edu (Help Desk Central)
LEARNING ASSISTANCE RESOURCES
(HANDOUT IN YOUR FOLDER)

Help is available on campus! Do not wait, find help as soon as you start to struggle! Ask an advisor for resources!

- **Study Hub**: One stop shop for learning assistance

- **Academic Success Center**: SIs, Tutoring, Academic Coaching, Workshops (*time management*, test anxiety and test-taking skills, *how to study*)

- **Help Desks**: Physics, Chemistry and Math

- **University Writing Center**: writing guides, workshops and one-on-one appointments
Fall Career Fairs:

http://careercenter.tamu.edu/Events/Career-Fairs

- Engineering – Sept. 4 & 5, 9 am – 4 pm, Texas A&M Hotel and Conference Center, Hall of Champions and All American Club of Kyle Field
- Business – Sept. 25 & 26, 10 am – 3 pm, Reed Arena
- Sciences – September 5, 10 am – 3 pm, MSC 2300 (Bethancourt Ballroom)

Jobs

- part-time jobs on and off campus:
  http://jobsforaggies.tamu.edu/
- internships, co-ops and full-time jobs:
  http://careercenter.tamu.edu/
WHAT CAN YOU DO WITH A PHYSICS DEGREE?
Status of Physics Bachelors One Year After Degree, Classes of 2013 & 2014 Combined

Graduate Study

<table>
<thead>
<tr>
<th>Physics &amp; Astronomy</th>
<th>Other Fields</th>
<th>Employed</th>
<th>Unemployed</th>
</tr>
</thead>
<tbody>
<tr>
<td>32%</td>
<td>22%</td>
<td>41%</td>
<td>5%</td>
</tr>
</tbody>
</table>

Figure based on 4,886 individuals.

http://www.aip.org/statistics
GET A JOB!

Initial Employment Sectors of Physics Bachelors, Classes of 2013 & 2014 Combined

- Private Sector: 65%
- College & University**: 10%
- High School: 9%
- Other: 5%
- Active Military*: 6%
- Civilian Gov't, National Lab: 5%

*Data do not include degree recipients from the three military academies (US Naval Academy, US Military Academy, US Air Force Academy).

** Data include two- and four-year colleges, universities, and university affiliated research institutes.

Figure based on the responses of 1,867 individuals

Field of Employment for Physics Bachelors in the Private Sector, Classes of 2013 & 2014 Combined

- Engineering: 38%
- Computer or Information Systems: 23%
- Non-STEM: 25%
- Other STEM: 13%
- Physics or Astronomy: 5%

STEM refers to natural science, technology, engineering, and mathematics.

Figure is based on 1,141 responses

Credit: AIP Statistical Research Center, Focus on Physics Bachelor's Initial Employment
TAMU B.A. AND B.S. IN PHYSICS

- Accenture
- Amazon
- Capital One
- Department of Defense
- General Dynamics
- General Motors
- GHG Corp. – NASA contractor
- L3 Mustang Technologies
- Odyssey Space Research
- Price Waterhouse Coopers
- Silicon Labs
- SpaceX
- TEEX (Engineering Extension Service)
- Willis Towers Watson
GO TO GRADUATE SCHOOL

Field of Graduate Study for Physics Bachelors One Year After Degree, Classes of 2013 & 2014 Combined

- Physics or Astronomy: 59%
- Engineering: 20%
- Other: 21%

- Mathematics
- Medicine
- Education
- Physical Sciences
- Computer Science
- Social Sciences
- Law
- Business
- Humanities
- Other

Figure based on 2,709 physics bachelors who enrolled in graduate school following graduation.

http://www.aip.org/statistics
TAMU B.A. AND B.S.
GRADUATE SCHOOLS AND FIELDS OF STUDY

- Baylor College of Medicine
- Duke University
- Emory University
- Georgia Tech
- Harvard University
- MIT
- Notre Dame
- Purdue
- Rice University
- Stanford University
- University of California, Berkeley
- University of Colorado, Boulder
- University of Southern California
- Yale University

- Aerospace Engineering
- Applied Statistics and Data Analysis
- Business
- Computer Science
- Education
- Electrical Engineering
- Finance
- Industrial Engineering
- Materials Science and Engineering
- Math
- Medical Physics
- Medicine
- Nuclear Engineering
- Robotics
Grad Schools:
• UC, Berkeley
• Notre Dame
• Rutgers
• Stanford
• Texas A&M
• Washington University

Medical School:
• TAMU – Health Science Center

Class of 2016

Jobs
• Amazon
• American Airlines
• Capital One
• Capsher Technology Development (software)
• Credera (management consulting)
• General Dynamics Information Technology
• Reynolds and Reynolds
• Cy-Fair High School
• Texas Engineering Extension Agency
• Universidad de El Salvador

Class of 2016

- Job: 56%
- Grad or Prof. School: 37%
- Unknown: 7%
Grad Schools:
- Duke University
- Georgia Tech
- Montana State University
- Southern Methodist University
- Stony Brook University
- Texas A&M University
- Texas Tech University
- University of California, Santa Cruz
- University of Minnesota
- University of Southern California
- University of Texas, Austin
- University of Washington

Jobs:
- ASD Healthcare
- Ceiling Outfitters
- Eurofins Lancaster Laboratories
- General Motors
- Infosys Limited
- LG Virtual Solutions
- Silicon Labs
- TAMU Sponsored Research Services
- Willis Towers Watson
- Vandegrift High School
Grad Schools:
- Lehigh University
- MIT
- Purdue University
- Texas A&M University
- Yale University

Commissioned:
- Navy

Jobs:
- Dept. of Defense
- Genesis 10
- Omnitrac
- Odyssey Space Research
- Texas A&M University (IT)
- Wesley Foundation
UNDERGRADUATE RESEARCH

The Physics and Astronomy Department has a long history of award winning undergraduate research in many areas:

- Applied Physics
- Astronomy, Astrophysics and Cosmology
- Atomic Physics
- Condensed Matter Physics
- Materials Physics
- Nuclear Physics
- Quantum Optics
- Quantum Computing
- String Theory

Nationally, ~75% of students graduating with a Physics degree have research experience. 100% of students graduating with a B.S. in Physics from TAMU have research experience (4 hours required in degree), as well as many B.A. students.

Responses form the Fall 2016 Sciences Career Fair employer assessment indicate that Undergraduate Research with Faculty is either essential or very important to 51% of the employers recruiting at the Career Fair.
PLANNING YOUR SCHEDULE
WILL YOU BE?

- in the Corps - which branch - Corps band?
- a Century Scholar
- in the University Honors Program
- part of a choir or ensemble
- in AggieTeach
- an athlete
- responsible for work or family obligations

All of these will affect your schedule, by requiring certain courses or by restricting the times you can take classes.
THINGS TO KNOW

• one credit hour of lecture = ~1 hour in class, per week

• a three credit hour course, in the fall and spring, will generally meet:
  Monday, Wednesday and Friday (M/W/F) for 50 minutes each class
  Tuesday and Thursday (T/T) for 75 minutes each class
  Monday and Wednesday (M/W) for 75 minutes per class (usually evening classes)

• one credit hour of lab = ~3 hours per week in the lab, usually in a 3 hours block one day per week

• you should plan to schedule study time for at least 2 – 3 hours per week, per credit hour, for each class (e.g., for a 3 hour class, you should schedule 6 -9 hours per week, minimum) – for your first year
COMMON ERROR MESSAGES

• prerequisite and test score error – check the prereqs in Howdy

• student attribute error – usually for a Lab Safety Acknowledgement, sometimes for an Honors section

• field of study restriction – reserved for specific majors, pick another section

Always check for ‘attributes’, ‘restrictions’, ‘corequisites’ and ‘prerequisites’ before trying to add a class to your schedule.
BUILDING YOUR SCHEDULE
# MATH

## MATH 150 – PRE-CALCULUS (MPE SCORE: 1 - 21)

<table>
<thead>
<tr>
<th>Title</th>
<th>CBNum</th>
<th>Subject</th>
<th>Course</th>
<th>Section</th>
<th>Hours</th>
<th>Instructor</th>
<th>Attribute</th>
<th>Term Type</th>
<th>Meeting Times</th>
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<tbody>
<tr>
<td>MATH 150: Lecture - Laboratory</td>
<td>6032</td>
<td>MATH</td>
<td>150</td>
<td>003</td>
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<td>MATH</td>
<td>150</td>
<td>010</td>
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<td>08:35 AM - 10:25 AM</td>
<td>16 of 19 seats re.</td>
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**MATH 150**

Section 501 – all seats available (19 of 19)
- T/T - 8 am – 9:15 am – lecture
- M – 11:30 am – 12:20 pm – recitation

Section 510 – 16 of 19 seats available
- T – 9:35 am – 10:25 am – recitation
- M/W/F – 11:30 am – 12:20 pm - lecture
# MATH

## MATH 171 – CALCULUS (MPE SCORE: 22 - 33)

<table>
<thead>
<tr>
<th>Title</th>
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<th>Course</th>
<th>Section</th>
<th>Hours</th>
<th>Instructor</th>
<th>Attribute</th>
<th>Term Type</th>
<th>Meeting Times</th>
<th>Status</th>
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</thead>
</table>
| MATH ANALYTIC GEOM & CALC Lecture | 17141 | MATH | 171 | 392 | 4 | Kent Daniel (PWSK) | College Station | Honors | Core Mathematics (MTH) | LM1 | LM2 | STANDARD | Tue/Thu 08:20 AM - 09:35 AM | Lecture: SLDC 30212 Course: 0021 Start Date: 08/26/2019 End Date: 12/13/2019 | 36 of 20 seats re...
| MATH ANALYTIC GEOM & CALC Lecture | 224234 | MATH | 171 | 502 | 4 | | College Station | Core Mathematics (MTH) | LM1 | LM2 | STANDARD | Tue/Thu 08:20 AM - 09:35 AM | Lecture: SLDC 30212 Course: 0022 Start Date: 08/26/2019 End Date: 12/13/2019 | 27 of 30 seats re...

---

**MATH 171**

Section 202 (Honors) – all seats available (20 of 20)
W - 8 am – 8:50 am – recitation
T/T – 11:10 am – 12:25 pm – lecture

Section 502 – 27 of 35 seats available
T/T – 9:35 am – 10:50 am – lecture
W – 11:30 am – 12:20 pm – recitation
# CHEMISTRY

## CHEM 107 - LECTURE

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<th>Hours</th>
<th>Instructor</th>
<th>Attribute</th>
<th>Term Type</th>
<th>Meeting Times</th>
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<td>10532</td>
<td>CHEM</td>
<td>107</td>
<td>501</td>
<td>3</td>
<td>Brown, Lawrence (Prim...</td>
<td>College Station CHE1 Core Life/Physical Sci (KLPS)</td>
<td>STANDARD</td>
<td>M T W Th F 9:10 AM - 10:00 AM Type: Lecture Building: HEQD Room: 100 Start Date: 08/27/2019 End Date: 12/11/2019</td>
<td>5 of 10 seats re...</td>
</tr>
<tr>
<td>GEN CHEM FOR ENGINEERS Lecture</td>
<td>10533</td>
<td>CHEM</td>
<td>107</td>
<td>502</td>
<td>3</td>
<td>Brown, Lawrence (Prim...</td>
<td>College Station CHE1 Core Life/Physical Sci (KLPS)</td>
<td>STANDARD</td>
<td>M T W Th F 11:30 AM - 12:30 PM Type: Lecture Building: HEQD Room: 100 Start Date: 08/27/2019 End Date: 12/11/2019</td>
<td>FULL: 0 of 0</td>
</tr>
</tbody>
</table>

The CRN from one open section of CHEM 107 and one open section of CHEM 117 (next slide) **must** be entered at the same time.

**CHEM 107 (lecture)**

- Section 501 – available, 5 of 10 seats remain
- Section 502 – unavailable, 0 seats remain (hover to see how many total seats there are)

The CRN from one open section of CHEM 107 and one open section of CHEM 117 (next slide) **must** be entered at the same time.
CHEM 117 (lab)

Section 501 – Monday (M) 8 am – 10:50 am
Section 596 – Thursday (T) 2:20 pm – 5:10 pm,

The CRN from one open section of CHEM 107 (previous slide) and one open section of CHEM 117 must be entered at the same time.
HOW AN ACADEMIC ADVISOR CAN HELP

- Academic planning for Physics majors – course scheduling, degree plans, minors, double majors/degrees
- Referrals to other offices, we’ll try to direct you to whomever has the correct piece of the puzzle
- If you don’t know how to address a particular situation
- If you just need someone to listen (we’re not counselors, but we can listen)
- Recommendation letters
- Questions about opportunities after physics
- Finding research
HOW AN ACADEMIC ADVISOR CANNOT HELP

- Financial Aid; we’ll refer you to the Fin. Aid office
- Counseling; TAMU has a Student Counseling Center
- Advising for other majors; we know a small amount about other majors, but not enough to feel comfortable advising on them; we will point you to the right person
- Help with homework; no, we do not have Physics degrees and when our students start talking about their coursework, it sounds like a foreign language

We cannot help if you don’t ask!
THE MOST IMPORTANT TAKEAWAYS
How often should you check your student email?

What should you do as soon as you begin struggling in any class?

How often are classes offered starting in the 4th semester? How long are you pushed back if you get off track?
DEPARTMENT OF PHYSICS AND ASTRONOMY
ACADEMIC ADVISORS

Sherree Kessler

Senior Academic Advisor
E-Mail: skessler@tamu.edu
Phone: 979.458.5948
Office: Mitchell Physics Building, 156

RaéChel Superville

Academic Advisor II
E-Mail: rsuperville@tamu.edu
Phone: 979.845.7738
Office: Mitchell Physics Building, 154

https://physics.tamu.edu
CONTACT US

Mitchell Physics Building, Rm 154 or 156
(979) 458-5946 or (979) 845-7738
advising@physics.tamu.edu

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