ABOUT THE MAJOR

This is a “3+2,” or Dual Degree, program that allows a student in approximately 5 academic years to obtain both a Bachelor of Science degree in Physics from the University of West Georgia and an engineering degree from Kennesaw State University. After completing the academic requirements of the two participating institutions, the student shall be awarded two bachelor’s degrees from the University of West Georgia and Kennesaw State University.

ABOUT THIS MAP

This program map is intended ONLY as a guide for students to plan their course of study. It does NOT replace any information in the Undergraduate Catalog, which is the official guide for completing degree requirements. Use this map to help plan and guide your experience at UWG, including academic, co-curricular, and discovery opportunities. Everyone’s experience is different and activities in this map are suggestions. Always consult with your advisors whenever possible for new opportunities and updates.

WHERE CAN YOU GO WITH THIS DEGREE?

- Aerospace Engineer
- Astronomer
- Data Scientist
- Geophysicist
- Lab Manager
- Medical Physicist
- Optical Engineer
- Physics Teacher
- Professor
- Research Scientist

ADD A CERTIFICATE

- Atmospheric Science

HONORS COLLEGE

Consider joining if you have an Overall GPA of 3.2 and earned 15 college credit hours!

Visit westga.edu/program-maps for the latest version of this major map.
**TERM 1: FALL**

| C1: ENGL 1101 | 3 CREDIT HOURS |
| M: MATH 1113 | 4 CREDIT HOURS |
| I2: XIDS 2001 | 1 CREDIT HOUR |
| T1: CHEM 1211/1211L | 4 CREDIT HOURS |
| XIDS 2002 | 2 CREDIT HOURS |

**MILESTONES:**
- Complete ENG 1101 with C or better
- Complete MATH 1113

**TERM 2: SPRING**

| C2: ENGL 1102 | 3 CREDIT HOURS |
| T3: MATH 1634 | 4 CREDIT HOURS |
| T2: CHEM 1212/1212L | 4 CREDIT HOURS |
| I1: ORAL COMMUNICATIONS | 3 CREDIT HOURS |

**MILESTONES:**
- Complete ENG 1102 with C or better
- Complete CALCULUS I

14 FALL CREDIT HOURS + 17 SPRING CREDIT HOURS = 31 CREDIT HOURS

---

**TERM 1: FALL**

| F: PHYS 2211/2211L | 4 CREDIT HOURS |
| F: MATH 2644 | 4 CREDIT HOURS |
| MATH 2853 | 3 CREDIT HOURS |
| A: HUMANITIES | 3 CREDIT HOURS |
| S: SOCIAL SCIENCE | 3 CREDIT HOURS |

**MILESTONES:**
- Complete Principles of Physics
- Take Modern, Mathematical, Mechanics, E&M and Therm.
- Establish your pathway/concentration
- Take core and electives to balance upper-level coursework

**TERM 2: SPRING**

| F: PHYS 2212/2212L | 4 CREDIT HOURS |
| F: MATH 2654 | 4 CREDIT HOURS |
| P: CITIZENSHIP | 3 CREDIT HOURS |

**MILESTONES:**
- Complete Principles of Physics
- Take Modern, Mathematical, Mechanics, E&M and Therm.
- Establish your pathway/concentration
- Take core and electives to balance upper-level coursework

17 FALL CREDIT HOURS + 17 SPRING CREDIT HOURS = 34 CREDIT HOURS

---

**CRUSH YOUR COURSEWORK**

- Enroll in XIDS 2001: Physical Universe and Core IMPACTS courses.
- Complete math courses through Calculus I.
- Take Principles of Physics I (or ASTR 2313) in your second semester.
- Attend physics workshops.
- Meet with your Physics mentor.

**FIND YOUR PLACE**

- Meet Physics faculty and learn about their research and scholarship opportunities.
- Join the Physics Engineering club.
- Connect with junior/senior Physics students and ambassadors.

**BROADEN YOUR PERSPECTIVES**

- Explore diversity, equity, and inclusion resources and opportunities across campus.
- Check out the education abroad office.

**CONNECT OFF-CAMPUS**

- Visit Wolves Vote to learn about the voting process and registration.
- Consider volunteering for a campaign or organization in your community.

**TAKE CARE OF YOURSELF**

- Complete a self-assessment to see what careers and majors are right for you.
- Visit Office of Career and Graduate School Connections.
- Create your profile on Handshake.
- Consider applying for an on-campus job.

**TAKING CARE OF YOURSELF:**

- Visit the UWG Wellness Hub to find all the resources available to you!
- Visit Health Services.
- Get fit! Visit URec to see all your options.
- Visit the Center for Economic Education and Financial Literacy.

**PAVING YOUR PATH**

- Consider applying for an on-campus job.
- Create your profile on Handshake.
- Connections.
- Visit Office of Career and Graduate School Connections.
- Complete a self-assessment to see what careers and majors are right for you.
- Visit Office of Career and Graduate School Connections.
- Create your profile on Handshake.
- Consider applying for an on-campus job.

17 FALL CREDIT HOURS + 17 SPRING CREDIT HOURS = 34 CREDIT HOURS

---

**CRUSH YOUR COURSEWORK**

- In a student organization? Suggest you all complete an implicit bias workshop.
- Consider a study abroad program. Check out students’ stories of their experiences.

**FIND YOUR PLACE**

- Complete Principles of Physics.
- Take Modern, Mathematical, Mechanics, E&M and Therm.
- Establish your pathway/concentration.
- Take core and electives to balance upper-level coursework.

**BROADEN YOUR PERSPECTIVES**

- In a student organization? Suggest you all complete an implicit bias workshop.
- Consider a study abroad program. Check out students’ stories of their experiences.

**CONNECT OFF-CAMPUS**

- Take a fitness class, climb the rock wall, or join an intramural team.
- Consider whether counseling is right for you: take a mental health screening.

**TAKE CARE OF YOURSELF**

- Draft your resume and attend a resume blitz.
- Learn about how to network on social media and update your Handshake profile.
- Draft your personal statement.
- Visit the graduate school to find out about graduate programs and admission requirements.

**PAVING YOUR PATH**

- Draft your resume and attend a resume blitz.
- Learn about how to network on social media and update your Handshake profile.
- Draft your personal statement.
- Visit the graduate school to find out about graduate programs and admission requirements.
## YEAR 3

### TERM 1: FALL

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 3503</td>
<td>Modern Physics</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 3113</td>
<td>Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>PHYS ELECTIVE</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>FL/MATH OR PHYS ELECTIVE</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>S: SOCIAL SCIENCE</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

### TERM 2: SPRING

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 3213</td>
<td>Thermodynamics</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 3133</td>
<td>Electricity and Magnetism</td>
<td>3</td>
</tr>
<tr>
<td>FL OR MATH ELECTIVE</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>PHYS ELECTIVE</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>PHYS ELECTIVE</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

**MILESTONE:**
- FILL OUT APPLICATION TO TRANSFER TO ENGINEERING PROGRAM

15 FALL CREDIT HOURS + 15 SPRING CREDIT HOURS = 30 CREDIT HOURS

### COMPLETE DEGREE REQUIREMENTS AT ENGINEERING SCHOOL

After completing the academic requirements of UWG and the participating engineering institution, the student will be awarded the bachelor’s degree from UWG.

### CRUSH YOUR COURSEWORK

- Complete Principles of Physics.
- Take Modern, Mathematical, Mechanics, E&M and Thermal.
- Establish your pathway/concentration.
- Take core and electives to balance upper-level coursework.

### FIND YOUR PLACE

- Complete an internship in your field.
- Consider a summer or part-time job.
- Ask your department about networking opportunities with alumni.

### BROADEN YOUR PERSPECTIVES

- Take a fitness class, climb the rock wall, or join an intramural team.
- Consider whether counseling is right for you: take a mental health screening.

### CONNECT OFF-CAMPUS

- Develop a post-graduation exercise plan.
- Explore career shadowing opportunities.

### TAKE CARE OF YOURSELF

- Draft your resume and attend a resume blitz.
- Draft your personal statement.
- Visit the graduate school to find out about graduate programs and admission requirements.

### PAVE YOUR PATH

- Request references from professors and supervisors.
- Draft your resume cover letter and personal statement and revise it with career services.
- Attend business fairs and career fairs at UWG and across the state.
- Attend interview workshops.
- Apply for graduate programs.

### YEAR 4

- Finish your degree requirements.
- Complete your research/internships.
- Present at a conference.
- Write a scientific paper.
- Finish strong.