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.

WHERE CAN YOU GO WITH THIS DEGREE?
- Aerospace Engineer
- Astronomer
- Data Scientist
- Geophysicist
- Lab Manager
- Medical Physicist
- Optical Engineer
- Physics Teacher
- Professor
- Research Scientist

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.

ADD A CERTIFICATE
- Atmospheric Science

WHERE CAN YOU GO WITH THIS DEGREE?
- Aerospace Engineer
- Astronomer
- Data Scientist
- Geophysicist
- Lab Manager
- Medical Physicist
- Optical Engineer
- Physics Teacher
- Professor
- Research Scientist

Visit westga.edu/program-maps for the latest version of this major map.

VISIT WOLFWATCH FOR MORE INFORMATION.

HAVE A QUESTION?
CHECK IN WITH YOUR ADVISOR!
<table>
<thead>
<tr>
<th>YEAR 1</th>
<th>YEAR 2</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>TERM 1: FALL</strong></td>
<td></td>
</tr>
<tr>
<td><strong>TERMINAL CORE</strong></td>
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</tbody>
</table>
| **A1:** ENGL 1101  
English Composition I &  

3 CREDIT HOURS |
| **A2:** MATH 1113  
Calculus I &  

4 CREDIT HOURS |
| **B2:** XIDS 2001  
The Physical Universe &  

1 CREDIT HOURS |
| **D1:** CHEM 1211/1211L  
Principles of Chemistry I + Lab &  

4 CREDIT HOURS |
| **XIDS 2002**  
First-Year Seminar &  

2 CREDIT HOURS |
| **MILESTONES:**  
- COMPLETE ENGL 1101 WITH C OR BETTER  
- COMPLETE MATH 1113 |
| **CRUSH YOUR COURSEWORK** |
| **F:** PHYS 2211/2211L  
Principles of Physics I &  

4 CREDIT HOURS |
| **F:** MATH 2644  
Calculus II &  

4 CREDIT HOURS |
| **MATH 2853**  
Elementary Linear Algebra &  

3 CREDIT HOURS |
| **C:** HUMANITIES/FINE ARTS  
B1 OR E &  

3 CREDIT HOURS |
| **TERM 2: SPRING** |
| **TERMINAL CORE** |
| **A1:** ENGL 1102  
English Composition II &  

3 CREDIT HOURS |
| **D2:** MATH 1634  
Calculus II &  

4 CREDIT HOURS |
| **D1:** CHEM 1212/1212L  
Principles of Chemistry II &  

4 CREDIT HOURS |
| **B1 OR E** &  

3 CREDIT HOURS |
| **B1 OR E** &  

3 CREDIT HOURS |
| **MILESTONES:**  
- COMPLETE ENGL 1102 WITH C OR BETTER  
- COMPLETE CALCULUS I |
| **CRUSH YOUR COURSEWORK** |
| **F:** PHYS 2212/2212L  
Principles of Physics II &  

4 CREDIT HOURS |
| **F:** MATH 2654  
Calculus III &  

4 CREDIT HOURS |
| **MATH 3303**  
Ordinary Differential Equations &  

3 CREDIT HOURS |
| **C:** HUMANITIES/FINE ARTS  
B1 OR E &  

3 CREDIT HOURS |
| **TERM 2: SPRING** |
| **TERMINAL CORE** |
| **Connect Your Off-Campus** |
| **Take a fitness class, climb the rock wall, or join an intramural team.** |
| **Take an implicit bias workshop.** |
| **In a student organization? Suggest you all complete an implicit bias workshop.** |
| **Consider a study abroad program. Check out students’ stories of their experiences.** |
| **Take Care of Yourself** |
| **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.** |
| **Attend a scientific conference.** |
| **Find Your Place** |
| **Visit the graduate school to find out about graduate programs and admission requirements.** |
| **Visit the Center for Economic Education and Financial Literacy.** |
| **Visit Wolves Vote to learn about the voting process and registration.** |
| **Visit Health Services.** |
| **Visit the UWG Wellness Hub to find all the resources available to you!** |
| **Take the IMC Wellness Hub to find all the resources available to you!** |
| **Visit the Center for Economic Education and Financial Literacy.** |
| **Complete an internship in your field.** |
| **Consider a summer or part-time job.** |
| **Ask your department about networking opportunities with alumni.** |
| **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.** |
| **Join the Physics Engineering club.** |
| **Meet Physics faculty and learn about their research and scholarship opportunities.** |
| **Join the Pharmacology Engineering club.** |
| **Complete a self-assessment to see what careers and majors are right for you.** |
| **Visit Off-Campus Connections.** |
| **Create your profile on Handshake.** |
| **Consider applying for an on-campus job.** |
| **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.** |
| **Attend a scientific conference.** |

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

17 FALL CREDIT HOURS + 17 SPRING CREDIT HOURS = 34 CREDIT HOURS
TERM 1: FALL

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>PHYS 3503</td>
<td>Modern Physics</td>
<td>3</td>
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<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>B1 OR E</td>
<td></td>
<td>3</td>
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</table>

TERM 2: SPRING

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

YEAR 4

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 Therm.
- Establish your pathway/concentration.
- Take core and electives to balance upper-level coursework.

FIND YOUR PLACE

- Become a Student Assistant for a physics lab, workshops or the Observatory.
- Get involved in research or an internship.
- Apply for summer internships or REUs.
- Attend a scientific conference.

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

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

TAKE CARE OF YOURSELF

- 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.

PAVE 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.

CRUSH YOUR COURSEWORK

- Become a Physics Ambassador.
- Expand your professional network.
- Apply for internships in local industries or graduate programs.
- Attend career fairs. Send your resume to one of our alumni.

FIND YOUR PLACE

- Assess your cultural competency.
- Consider working abroad and research visa regulations.
- Explore practices of creating more inclusive careers.

BROADEN YOUR PERSPECTIVES

- Ask for advice from professionals in your field of interest.
- Explore career shadowing opportunities.

CONNECT OFF-CAMPUS

- Explore a farmer’s market for fresh produce.
- Develop a post-graduation exercise plan.
- Explore your loan repayment options and complete your exit counseling.

TAKE CARE OF YOURSELF

- 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 an interview workshop.
- Apply for graduate programs.

PAVE 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

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