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

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!

PHYSICS

DUAL-DEGREE ENGINEERING

Bachelor of Science

60

CORE CREDIT HOURS

45

UWG MAJOR CREDIT HOURS

25

NON-UWG CREDIT HOURS



TERM 1: FALL

A1: ENGL 1101 English Composition I	3 CREDIT HOURS
A2: MATH 1113 Precalculus	4 CREDIT HOURS
B2: XIDS 2001 The Physical Universe	1 CREDIT HOUR
D1: CHEM 1211/1211L Principles of Chemistry I + Lab	4 CREDIT HOURS
XIDS 2002 First-Year Seminar	2 CREDIT HOURS

• COMPLETE ENGL 1101 WITH C OR BETTER

TERM 2: SPRING

A1: ENGL 1102 English Composition II	3 CREDIT HOURS
D2: MATH 1634 Calculus I	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 MATH 1113

- COMPLETE ENGL 1102 WITH C OR BETTER
- COMPLETE CALCULUS I

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

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- Enroll in XIDS 2001: Physical Universe and Core
- 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

CRUSH YOUR COURSEWORK

- 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

- 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.

PAVE YOUR

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

TERM 1: FALL

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	3 CREDIT HOURS
B1 OR E	3 CREDIT HOURS

TERM 2: SPRING

F: PHYS 2212/2212L Principles of Physics II	4 CREDIT HOURS
MATH 3303 Ordinary Differential Equations	3 CREDIT HOURS
F: MATH 2654 Calculus III	4 CREDIT HOURS
B1 OR E	3 CREDIT HOURS
C: HUMANITIES/FINE ARTS	3 CREDIT HOURS

MILESTONES:

- COMPLETE PRINCIPLES OF PHYSICS SEQUENCE
- COMPLETE MATH UP TO CALCULUS III

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

CRUSH YOUR COURSEWORK

- Complete Principles of Physics.
 Take Modern, Mathematical, Mechanics, E&M and
- 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
- Consider whether counseling is right for you: take a mental health screening.

• Draft your resume and attend a resume blitz. · Learn about how to network on social media and PAVE YOUR Path update your Handshake profile.

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

TERM 1: FALL

PHYS 3503 Modern Physics	3 CREDIT HOURS
PHYS 3113 Mechanics	3 CREDIT HOURS
PHYS ELECTIVE	3 CREDIT HOURS
FL/MATH OR PHYS ELECTIVE	3 CREDIT HOURS
B1 OR E	3 CREDIT HOURS

TERM 2: SPRING

PHYS 3213 Thermodynamics	3 CREDIT HOURS	
PHYS 3133 Electricity and Magnetism	3 CREDIT HOURS	
FL OR MATH ELECTIVE	3 CREDIT HOURS	
PHYS ELECTIVE	3 CREDIT HOURS	
PHYS ELECTIVE	3 CREDIT HOURS	
MILESTONE: • FILL OUT APPLICATION TO TRANSFER TO EN	GINEERING	

PROGRAM

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

CRUSH YOUR COURSEWORK

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

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.

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• In a student organization? Suggest you all complete an implicit bias workshop.

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- Consider whether counseling is right for you: take a mental health screening.

PAVE YOUR Path

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- · 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.

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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

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

FIND YOUR PLACE

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

BROADEN YOUR PERSPECTIVES

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

CONNECT OFF-CAMPUS

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

TAKE CARE OF YOURSELF

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

PAVE YOUR Path

- Request references from professors and
- 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.