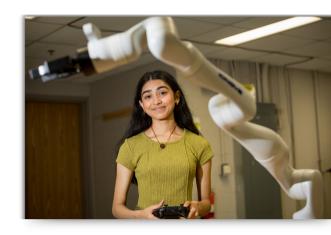
THE GATTON ACADEMY of Mathematics and Science

KENTUCKY'S FIRST RESIDENTIAL STEM ACADEMY

The Gatton Academy of Mathematics and Science in Kentucky is the Commonwealth's first two-year residential program for students interested in careers in science, technology, engineering, and mathematics. Instead of spending their junior and senior years in traditional high school settings, our 190 students take all their coursework through Western Kentucky University with regularlyenrolled college students. Students at The Gatton Academy earn not only a high school diploma, but also an Associate Degree of Interdisciplinary Studies. The Gatton Academy empowers Kentucky's exceptional young scientists and mathematicians to learn in an environment which offers advanced educational opportunities while living in a supportive community. CONTACT

The Gatton Academy Western Kentucky University 1906 College Heights Blvd. #71031 Bowling Green, KY 42101

270-745-6565 academy@wku.edu wku.edu/academy @gattonacademy



STUDENT TRANSCRIPTS

Transcripts include grades earned from the sending high school (freshman and sophomore years) and grades earned from The Gatton Academy through Western Kentucky University (junior and senior years).

Unweighted GPAs are reported on a 4.0 scale.

- When adding WKU course credits to the high school transcript, three-hour university courses are converted to one high school course credit.
- After determining the quality points from both the home high school and WKU, a cumulative GPA is calculated on a 4.0 scale.

Weighted GPAs are tabulated for colleges who consider them. One quality point is added for each WKU course taken that is part of the Gatton core curriculum.

The Gatton Academy does not rank students or their GPAs.

STUDENT SELECTION

Applicants are high school sophomores who have completed Geometry and Algebra II by the end of their sophomore year. Students are selected based on ACT or SAT scores; academic grades from ninth and tenth grades; interests in advanced careers in science, technology, engineering, and math; student responses to application essay questions; recommendation letters; and interviews. The application process is competitive, as approximately 30% of applicants who start the application process are accepted. The Gatton Academy accepts approximately 100 students each year.

ACT SCORE RANGE High (75%): 34 Low (25%): 29 Average: 31 UNWEIGHTED GPA RANGE High (75%): 3.98 Low (25%): 3.68 Average: 3.81



August 2023

In the program's first sixteen years, students from 117 of Kentucky's 120 counties have attended The Gatton Academy.

ACADEMICS

The academic rigor of The Gatton Academy is meant to challenge students to excel at the highest levels, while drawing connections between the classroom and real-world research options. All coursework is taught at the college level by university faculty.

MATHEMATICS (3-4 Courses)

Students are assigned their introductory math course based on prior coursework and placement exam scores administered by the Western Kentucky University Department of Mathematics.

MATH 117 Trigonometry (3 Hours) MATH 136 Calculus I (4 Hours) MATH 137 Calculus II (4 Hours) MATH 237 Multivariable Calculus (3 Hours) MATH 307 Introduction to Linear Algebra (3 Hours) MATH 371 Computational Problem Solving (3 Hours)

CORE SCIENCE (5 Courses)

Students must take at least one biology, chemistry, computer science, and physics class. Additionally, students must complete at least one two-course STEM sequence.

- BIOL 120/121 Biological Concepts: Cells, Metabolism, and Genetics/Lab (4 Hours)
- BIOL 122/123 Biological Concepts: Evolution, Diversity, and Ecology/Lab (4 Hours)

CS 180 Computer Science I/Lab (4 Hours)

CS 290 Computer Science II/Lab (3 Hours)

CHEM 120/121 College Chemistry I/Lab (5 Hours)

CHEM 222/223 College Chemistry II/Lab (5 Hours)

PHYS 255/256 University Physics I/Lab (5 Hours)

PHYS 265/266 University Physics II/Lab (5 Hours)

ENGINEERING (1 Course)

Students must take a project-based engineering course. SEAS 368 Problem Solving (3 Hours)

STEM ELECTIVES (3-4 Courses)

Students choose from the following areas: agriculture, architecture, astronomy, biology, chemistry, communication sciences and disorders, computer science, engineering, environmental science, exercise science, geography, geology, healthcare administration, manufacturing, math, meteorology, nursing, physics, psychological sciences, and/or public health.

ENGLISH (2 Courses)

Students who score 29 or higher on the English portion of the ACT or a 650 or higher on the Critical Reading portion of the SAT receive credit for English 100 and begin with English 200.

ENG 100 Introduction to College Writing (3 Hours) ENG 200 Introduction to Literature (3 Hours) ENG 300 Writing in the Disciplines (3 Hours)

US HISTORY (Up to 1 Course)

Students who have not documented completion of US History by August 15 before enrollment at The Gatton Academy enroll in HIS 241 United States Since 1865

ACADEMY SEMINAR (3 Courses)

ACMS 175 Junior Seminar I (1 Hour) ACMS 175 Junior Seminar II (1 Hour) ACMS 175 Senior Seminar (1 Hour)

Students complete additional pre-college requirements as mandated by the Commonwealth of Kentucky

INSTITUTIONAL ACCOLADES



2022 Recipient of Inspiring Programs in STEM Award, **Insight Into Diversity Magazine**

America's Languages: Guide to **Exemplary Programs & Practice** in U.S. Language Education - 2021 Recipient **U.S. Department of State**

National Security Language Intiative for Youth (NSLI-Y) Scholarships in 2023

National Merit	2023	15/93	
Semifinalists by Class Year	2022		26/97
Number of semifinalists/total	2021	19/78	
number of students	2020	22/8	\$7

CLASS OF 2024 PROFILE

61% of the Class of 2024 participated in research or **STEM + Critical Language** during 11th grade

10.6% Underrepresented Background 12.0% Qualify for Free-Reduced Lunch

14.9% First-Generation College Students 18.9% From the Appalachian Region

*including Gatton Research Internship Grants, USDA-funded internships, and GM-funded internships

research presentations given at

academic conferences in 22-23 year

41.8 hours or more

of community service completed

on average by each student

76% participated in summer learning in summer 2023

As of August 2023, 93 students comprise the Class of 2024.

SCHOLARLY RESEARCH

Learning from one-on-one mentorship from university faculty, students work on STEM research projects beyond the classroom and take research on as an extracurricular scholarly pursuit. Students share their findings through presentations at local, state, and national conferences.

STEM + CRITICAL LANGUAGE

15 students in Gatton's Class of 2024 study in our STEM + Critical Languages curricular pathways. These students supplement the program's STEM-based curriculum by taking intensive Chinese or Russian language courses of increasing rigor each semester. They achieve at least four levels of mastery by graduation. Students in the STEM + Chinese pathway have the option of studying in the demanding National Security Education Program's WKU Chinese Flagship courses. The Gatton Academy considers study in STEM + Critical Language pathways equivalent to conducting independent, mentored research. These pathways are an option available to students once they have been accepted to The Gatton Academy.

STUDY ABROAD

Students may participate in study abroad opportunities to Harlaxton College in England for three weeks to fulfill an English requirement or to Costa Rica for two weeks to fulfill a biology STEM elective. 63 students in the Class of 2024 have studied abroad.

students placed in full summer research internships