



Accelerated Learning Program

Grade(s): 9 -12
Session: Summer
Format: UW-Madison Residential



WHAT IS ALP?

Accelerated Learning Program (ALP) engages talented students from across Wisconsin, the nation, and the world in the research-based expertise of the University of Wisconsin-Madison.

Come experience a truly unique learning environment with new offerings in the 2019 Accelerated Learning Program, where gifted students from across the world can interact, learn, and grow with each other.

AT A GLANCE

- COLLEGE LEVEL COURSE WORK
- SINGLE-SUBJECT FOCUS
- 105 HOURS OF ACCELERATED INSTRUCTION
- CAMPUS FIELDTRIPS
- INDEPENDENCE DAY CELEBRATION
- DIVERSE COMMUNITY

PROGRAM DATES: JUNE 30 - JULY 20, 2019



WHAT TO EXPECT

Be ready to grow in the area of your unique academic interest at a highly accelerated pace and lose track of time while immersing yourself in your favorite topic. By the end of the program, you should notice better time management skills when handling complex projects and improve understanding of yourself, your strengths, and your talents. On the residential side of camp, be ready to find lasting friendships as well as engage in residential activities that push your personal boundaries. Overall, you will be able to contribute your ideas to a broad community of intellectual youth. When everything is said and done, the WCATY experience is what you make it.

INTELLECTUAL CHALLENGE RIGOROUS CURRICULUM

DEDICATED TEACHERS LASTING FRIENDSHIPS

APPLICATION

Students applying to ALP must demonstrate outstanding academic ability and motivation to engage in in-depth study of one subject to be considered for admission.

Full list of application materials are available at wcaty.wisc.edu

Application deadline is **April 30, 2019**.

FEES AND PAYMENT

APPLICATION FEE: \$60 (NON-REFUNDABLE)
INTERNATIONAL TUITION: \$3,600
RESIDENTIAL TUITION: \$2,850
COMMUTER TUITION: \$1,950

Early bird rates apply through March 1. Financial Aid available for qualifying WI students. Tuition includes housing and meals throughout the program, cost of recreational activities, course supplies, and transportation during the program.

RECREATION

Students will live in shared occupancy rooms in the Bradley Residence Hall in the scenic Lakeshore Residence area of the UW-Madison campus alongside Lake Mendota. The Bradley Residence Hall includes air-conditioned rooms, internet access, and lounges. Recreational activities include sports and games, tours of the Wisconsin Institute for Discovery and numerous museums, and trips to the famous Memorial Union and State Street.

Disclaimer: This is not a school-sponsored activity and the Madison Metropolitan School District does not approve, support, supervise or endorse this program/activity. Esta no es una actividad patrocinada por la escuela y el Distrito Escolar Metropolitano de Madison no aprueba, respalda, o promociona este programa o actividad.

Wisconsin Center for Academically Talented Youth

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WCATY
Wisconsin Center for
Academically Talented Youth
UNIVERSITY OF WISCONSIN-MADISON

INTRODUCTORY CLASSES

INTRODUCTION TO CRITICAL REASONING Learn how to identify and evaluate arguments with the skills of logicians, lawyers, and debaters. Examining arguments from both popular media and the great philosophers, you will learn to distinguish between deductive and inductive arguments, what makes certain arguments good or poor, and how to identify and avoid specific fallacies in reasoning. We will be reading articles and book passages that you might come across in an Introduction to Philosophy course.

PSYCHOLOGY OF LEARNING In this class, you will discover the intricacies of your own brain, what motivates us to learn, and how to become a lifelong learner. Explore the tools around us that have changed the way we learn, find the ones that affect your own learning, and discover how you can take control of them. The course will delve into the sometimes surprising new research about practical strategies we can use to learn faster, remember more, and think more creatively.

POLITICAL SCIENCE: EXPLORING THE AMERICAN DEMOCRACY Dive into the US Constitution, exploring the role and duties of the Legislative, Executive, and Judicial Branches. Various readings will be discussed to examine the changes in political thought in America across its history. How do history, geography, anthropology, and economics influence government? Consider all of this and more as we examine American Democracy.

HUMAN BODY AND DISEASE Disease mounts the ultimate battle and challenges scientists to unlock the most complex puzzles of illness, disability and the body's response. Beginning with an overview of human anatomy and physiology, students will probe the nature of disease with new understandings about genetics, pathology, and epidemiology. Case studies and presentations of current university research in stem cell therapy and pharmacological studies will complement hands-on laboratory studies.

ENGINEERING FUNDAMENTALS & DESIGN Engineering is a profession of problem-solving that is both academically rigorous and creatively demanding. This course will introduce you to a broad spectrum of engineering fields and provide a strong foundation for understanding its key tools and concepts. Guest speakers and lab visits will give students a glimpse into the everyday operations of UW engineering teams. We will look into the mindset of an engineer and explore current cutting edge questions in various engineering fields.

THEATRE: AN ANALYTICAL APPROACH TO ACTING AND PLAYWRITING In this course, you will study the art of playwriting and focus on creating characters through various exercises and in-depth character analysis. Students will attend a performance at the American Players Theatre, and culminate in an audition and performance of a full length play at The Bartell Theatre.

ECONOMICS AND SOCIETY This course is intended to provide a thorough understanding of the relationship between economics and social relationships. Students will become familiar with the basic principles of markets, how economic resources are organized, and how economics and sociology come together.

ADVANCED CLASSES

PHYSICS OF THE IMPOSSIBLE Teleportation, time travel, parallel universes, force fields, faster than light travel, telepathy. Are these concepts merely science fiction or your potential future? This class will force you to reshape your current knowledge of physics while building your understanding of competing theories and paradigms. You will also have the chance to review a number of key articles from modern physics as well as the pioneers of physics and engage in the discussion of recent scientific discoveries.

TOPICS IN COMPUTER SCIENCE Computer programming impacts social media, digital games, and music; and leads to medical breakthroughs, business innovation, and engineering marvels. Strong math and analytical skills are the only necessary prerequisites needed for studying data structures, algorithms, digital structures and other key programming concepts in this course. Using real world examples from Google, Netflix, and other corporate trendsetters, you will use programming principles and applications in final projects.

NEUROSCIENCE With the explosion of innovative technologies and new knowledge about the brain, the field of neuroscience remains on the frontier of contemporary science. We will look into rapid advances in the field as well as unresolved mysteries that future generations of neuroscientists will be tackling. This course will give a solid foundation in anatomy and physiology of the brain, and expand your understanding of how basic neurological processes relate to cognition, emotion, and behavior.

CHEMISTRY FOR THE CONSUMER Chemistry is utilized throughout a variety of different industries and impacts your life on a daily basis in ways that we are not always aware of. This course will investigate the impact that chemical products have on the daily lives of consumers. Major topics may include food additives, prescription and non-prescription drugs, fuels, pesticides, detergents, synthetic fibers and plastics.

CIVIL ENGINEERING: THE ART & SCIENCE OF STRUCTURES In this course you will explore the concepts behind things you see in everyday life such as buildings, roads, and waterways, and how they come to be. Through real world global and local examples, students will study the basics of structural and civil engineering as well as hear from campus experts in the field. At the end of the course, students will apply their knowledge to design a project that could be implemented in the city of their choice.

FORENSIC SCIENCE In this class, you will learn to collect, analyze, and interpret physical and biological trace evidence such as fingerprints, hair and fibers, blood, toxins, and DNA. You will discover how entomological and anthropological evidence from a post-mortem examination can help solve a crime. This laboratory-based course will allow you to use logical thought processes and scientific inquiry skills to interpret evidence, analyze criminal psychology, and examine the legal implications of crimes.

WCATY KIDS

FORWARD THINKERS

OPEN-MINDED ADVENTUROUS
BRIGHT MINDS

KINDRED SPIRITS

ETERNALLY CURIOUS
AWESOME PROUD GEEKS

INTREPID LEARNERS

FIERCE FRIENDS



FOR ADDITIONAL INFORMATION OR TO APPLY ONLINE,
VISIT OUR WEBSITE: www.wcaty.wisc.edu

