



Accelerated Learning Program

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

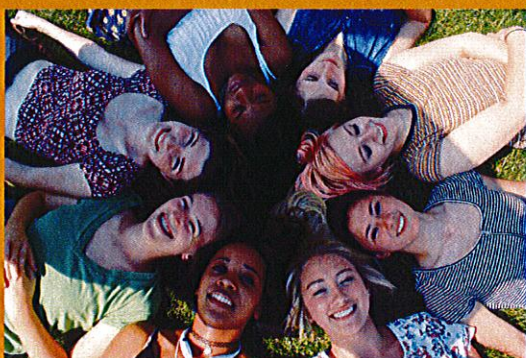
WHAT IS ALP?

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 2017 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
- WHOLE-CAMP GAMES
- INDEPENDENCE DAY CELEBRATION
- DIVERSE COMMUNITY

PROGRAM DATES: JUNE 25 - JULY 15, 2017



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 DEDICATED TEACHERS RIGOROUS CURRICULUM 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 28, 2017.

FEES AND PAYMENT

APPLICATION FEE: \$60 (NON-REFUNDABLE)
RESIDENTIAL TUITION: \$2,700
COMMUTER TUITION: \$1,850

Financial Aid available for qualifying 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 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.

Wisconsin Center for Academically Talented Youth

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Education Outreach and Partnerships
SCHOOL OF EDUCATION
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.

PSYCHOLOGY OF LEARNING Have you ever wondered how exactly we learn things? 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 your own learning. 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 U.S. Constitution, exploring the role and duties of the Legislative, Executive, and Judicial Branches. Compare the government of the United States with others around the world. How did the Founding Fathers ensure fair and equal representation? How do history, geography, anthropology, and economics influence government? Consider all of this and more, as we use past elections as a case study to examine and better understand the American Democracy.

HUMAN BODY AND DISEASE 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 from current university research will frame analyses of global health issues and future implications of ongoing research.

INTRO TO COMPUTER SCIENCE In this course, you will learn the introductory skills necessary for studying data structures, algorithms, digital structures and other key programming concepts. Using real world examples from Google, Netflix, and other corporate trendsetters, you will use programming principles and applications in your final design projects.

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 During the class, you will study the Absurd Theatre as you join their search for meaning in a world that often makes no sense, work to craft your own absurd theatre one-act, and focus on creating realistic and believable characters through various exercises and in-depth character analysis. If you enjoy being onstage, would welcome the chance to delve into some fascinating times in theatrical history, learn the art of playwriting and directing then this class is for you!

FOOD SCIENCE This course will allow you to explore the science of something we all love: food. We'll look at how the industry has changed over time and discuss where the industry is going. Through taking advantage of resources at the University of Wisconsin-Madison, you'll be able to explore food from an analytical point of view and think about challenges we face with food on a daily basis.

MEDIA STUDIES IN A DIGITAL AGE It is undeniable that the media shapes us and persistently changes the way we think, learn, and interact. In this class, we will examine the impact of such media on our perception of reality as well as the impact social networks have had on our culture and mass communication. We will also learn and apply a range of media production techniques.

ADVANCED CLASSES

EXTREME PHYSICS Using current scientific research, hands on technology at UW-Madison, and in class discussions, take a leap into the broad field of physics to learn about everything from black holes and wormholes to Ice Cube research to gravity in various environments. After exploring many theoretical concepts, you will have the opportunity to apply them to hands-on, real life situations.

LIFE SCIENCES: PHYSIOLOGY OF BODY SYSTEMS In this course, we will discuss how the various systems function in our body: nervous, cardiovascular, digestive, kidneys, immune, and reproductive, including basic endocrinology that accompanies these systems. Students will learn how the heart beats, how the brain communicates with the rest of the body and how our body defends itself against viruses and bacteria.

ADVANCED COMPUTER SCIENCE 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.

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 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 their city of choice.

ATMOSPHERIC SCIENCES: WEATHER & SATELLITE METEOROLOGY This course will put your knowledge of physics and calculus to use in order to understand how our planet works. We will explore how the sun imparts energy to the earth, and how the movement of that energy leads to weather and climate. For the final project, we will design and run experiments using a scaled-down global climate model and tour various labs on campus.

WCATY KIDS ARE

FORWARD THINKERS

OPEN-MINDED ADVENTUROUS

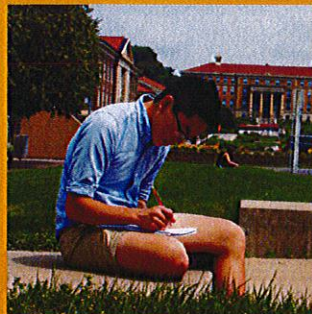
KINDRED SPIRITS BRIGHT MINDS

ETERNALLY CURIOUS

AWESOME PROUD GEEKS

INTREPID LEARNERS

FIERCE FRIENDS



FOR ADDITIONAL INFORMATION OR TO APPLY ONLINE,
VISIT OUR WEBSITE: WWW.WCATY.WISC.EDU

