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Iron Academy High School Course Catalog

Iron Academy's high school curriculum is designed to develop young men who are exceptionally educated, biblically grounded, and prepared for a life of leadership, self-discipline, and service.

Every course at Iron Academy is taught within a **distinctly Christian framework**. Academic excellence and biblical formation are not treated as competing goals. Students are challenged to pursue truth, think critically, communicate clearly, and understand their studies in light of a biblical worldview.

Iron Academy's approach emphasizes rigorous academics, higher-order thinking, personal responsibility, and the development of young men who are prepared to lead with wisdom, conviction, and character.

Course Levels

Standard courses provide a rigorous college-preparatory education focused on mastery of essential knowledge and skills, application, critical thinking, and effective communication.

Honors courses pursue the same foundational academic objectives with increased depth, pace, complexity, and independent work. Honors courses generally require more extensive reading, writing, analysis, and problem solving.

AP courses provide college-level academics and prepare students for the applicable AP exam.

Concurrent Enrollment (CE) gives students the opportunity to earn college credit through Judson College while completing an IA course. CE is optional and requires an additional fee. The corresponding Judson course (and #) are identified in the course descriptions below.

Course Availability and Placement

Standard and Honors offerings are dependent upon enrollment and individual grade-level needs. Not every course or level is guaranteed to be offered every year.

Mathematics placement is based on prerequisite completion and demonstrated readiness. **Geometry requires Algebra I as a prerequisite.**

Course placement, section availability, and scheduling are subject to enrollment and the academic needs of individual students.

Moving up to Honors from the standard level course in the same discipline requires either an A for the year at the standard level OR a teacher recommendation. Remaining in courses at the Honors level requires at least a B for the year at the Honors level.

English

Archetypal Literature (9/10) - Standard / Honors, Odd Years

Students explore enduring works of literature through recurring archetypes and themes that have shaped Western storytelling. Students develop reading, literary analysis and writing skills and address questions of human nature and morality. The **Honors** section provides greater depth and complexity through more demanding analysis, writing, and discussion.

Contemporary Literature (9/10) - Standard / Honors, Even Years

Students examine significant contemporary works of world literature written after the Enlightenment while developing skills in reading, literary analysis, composition, and thoughtful discussion. The **Honors** section provides greater depth and complexity through more demanding analysis, writing, and discussion.

American Literature (11/12) - Standard, Odd Years

Students survey significant works and authors in the American literary tradition while examining the historical and cultural contexts in which they were produced. Students develop literary analysis, writing, vocabulary, and discussion skills and consider major American ideas and themes through a Christian worldview.

British Literature (11/12) – Standard, Even Years

Students study representative works from the British literary tradition, exploring major authors, genres, and themes. Students strengthen literary analysis, reading comprehension, writing, and discussion skills while evaluating literature through a Christian worldview.

Composition I (11/12) – Honors, Odd Years

Students study significant works and authors in the American literary tradition while developing advanced academic writing skills, including organization, argumentation, research, use of evidence, revision, and effective communication. Students learn to develop clear and persuasive written arguments and produce polished academic work. **Concurrent Enrollment Option - Honors:** Students may elect to earn Judson College credit for **ENG1110 — English Composition I**. An additional **enrollment fee** applies.

Composition II (11/12) – Honors, Even Years

Students study representative works from the British literary tradition while building upon foundational composition skills, students develop greater sophistication in academic writing, research, analysis, argumentation, and use of evidence. Students refine their ability to write with clarity, precision, organization, and purpose. **Concurrent Enrollment Option - Honors:** Students may elect to earn Judson College credit for **ENG1120 — English Composition II**. An additional **enrollment fee** applies.

Mathematics

Geometry (9) - Standard / Honors (Prerequisite: Algebra I)

Using Saxon Math, students develop a systematic understanding of geometric relationships, properties, measurement, complex figures, 3D geometry, logical reasoning, and proof. Students learn to apply mathematical principles to increasingly complex problems and communicate mathematical reasoning clearly.

The **Honors** course provides greater depth and rigor, with additional emphasis on deductive reasoning, proof, and complex problem solving.

Algebra II (10) - Standard / Honors

Using Saxon Math, students build advanced algebraic fluency through the study of equations, inequalities, functions, polynomials, rational expressions, matrices, exponential relationships, and mathematical applications.

The **Honors** course provides increased depth, pace, and complexity and prepares qualified students for advanced mathematics.

Concurrent Enrollment Option — Honors: Students may elect to earn Judson College credit for **MAT1600 — College Algebra**. An additional **enrollment fee** applies.

Advanced Functions and Modeling - AFM (11/12)

Students investigate advanced algebraic and functional concepts with an emphasis on mathematical modeling and real-world applications. The course strengthens quantitative reasoning, problem solving, and analytical skills while preparing students for college-level mathematics.

Pre-Calculus – Honors (11/12)

Students develop the advanced algebraic, functional, and trigonometric skills necessary for calculus. Topics include functions, trigonometry, vectors, mathematical modeling, and advanced problem solving. The course is designed to provide a strong foundation for college-level calculus and other advanced mathematics.

AP Calculus AB (12)

AP Calculus AB provides a rigorous, college-level study of calculus, including limits, derivatives, integrals, and their applications. Students develop conceptual understanding, computational fluency, mathematical reasoning, and problem-solving skills in preparation for the AP AB Calculus examination.

Science

Biological Sciences I - Biology (9/10) - Standard / Honors, Odd Years

Using Apologia's biology curriculum and appropriate lab exercises, students study the principles of life, including cellular biology, genetics, classification, ecology, and biological systems. The complexity, order, and design in God's creation are emphasized. Students are equipped with a strong foundation for subsequent science courses.

The **Honors** course provides greater depth, pace, analysis, and independent work.

Chemistry (9/10) - Standard / Honors, Even Years

Using Apologia's chemistry curriculum, students investigate the composition, properties, and interactions of matter. Topics include atomic structure, chemical bonding, chemical reactions, stoichiometry, states of matter, and solutions. Laboratory investigations reinforce scientific reasoning, quantitative problem solving, and the disciplined practice of scientific inquiry.

The **Honors** course provides greater mathematical and conceptual depth.

Physics (11/12) - Standard / Honors, Odd Years

Students investigate the fundamental principles governing matter, energy, motion, forces, momentum, waves, electricity, and related phenomena.

The Honors course provides increased mathematical and conceptual rigor.

Concurrent Enrollment Option — Honors: Students may elect to earn Judson College credit for **SCI1610 — Introductory Physics**. An additional **enrollment fee** applies.

Biological Sciences II (11/12) - Anatomy - Standard / Honors, Even Years

Students examine the structure and function of the human body, including major organ systems and their interactions. Study and laboratory activities help students connect biological principles to human anatomy and physiology.

The Honors section provides greater depth, accelerated pace, and analytical rigor.

History

Cultural Geography (9/10) - Standard / Honors, Odd Years

Students examine the geography of the world (landforms, climate, population, cultures, resources, political boundaries, etc.). Students consider how geography influences civilizations while developing analytical skills. The **Honors** section provides greater depth and rigor.

Concurrent Enrollment Option — Honors: Students may elect to earn Judson College credit for **GEO2500 — World Geography**. An additional **enrollment fee** applies.

World History II (9/10) - Standard / Honors, Even Years

Students will survey the major civilizations, events, movements, and ideas that have shaped world history from the post-reformation era to the modern world through the lens of a Biblical worldview. Students will examine cause-and-effect relationships, cultural developments, systems of government, and the development and influence of competing ideas, beliefs, and worldviews. Throughout this course, students will evaluate historical developments within the biblical understanding that all things were created through Christ and for Christ (Col. 1:16) and that they must remain alert to God's providence as revealed in Scripture. The **Honors** section requires greater depth of reading, analysis, and historical reasoning.

Concurrent Enrollment Option — Hon. World His. II: Students may elect to earn Judson College credit for **HIS1120 — World History II**. An additional **concurrent-enrollment fee** applies.

U.S. History (11/12) - Standard / Honors, Odd Years

Students examine major events, movements, people, institutions, and ideas that have shaped the United States. The course develops historical reasoning through the study of political, cultural, economic, social, and religious developments in American history. The **Honors** course provides greater depth of reading, writing, and historical interpretation.

Concurrent Enrollment Option — Honors: Students may elect to earn Judson College credit for **HIS3510 — American History I**. An additional **enrollment fee** applies.

U.S. Constitution (11/12) - Honors, Even Years

Students conduct an in-depth study of the U.S. Government and American Civics include the constitutional structure, separation of powers, federalism, individual rights, civic responsibility, the philosophical foundations of American government, with students wrestling with what it means to live as citizens of the Kingdom of God and the United States.

Concurrent Enrollment Option:

Students may elect to earn Judson College credit for **POL3500 — U.S. Constitution & American Government**. An additional **enrollment fee** applies.

Bible

Apologetics (9/10) - Honors, Odd Years

Students examine the intellectual foundations of the Christian faith and learn to articulate and defend Christian beliefs thoughtfully and respectfully. Topics include the existence of God, the reliability of Scripture, the person and work of Christ, the problem of evil, truth, reason, and responses to competing claims about reality.

Christian Worldview Foundations (9/10) - Honors, Even Years

Students develop a foundational understanding of a distinctly Christian worldview and learn to apply biblical principles to questions of truth, knowledge, morality, humanity, culture, and purpose. Students learn to recognize and evaluate competing worldviews while developing a coherent framework for understanding God's world.

Engaging the Culture (11/12) – Honors, Odd Years

Students explore how Christians can thoughtfully and faithfully engage contemporary culture while remaining grounded in biblical truth. The course examines cultural ideas, institutions, media, and significant issues and challenges students to respond with wisdom, conviction, humility, and grace.

Introduction to the Christian Religion and Competing Worldviews (11/12)– Honors, Even Years

Students examine the essential beliefs and practices of Christianity alongside major competing religious and philosophical worldviews. Students learn to understand, compare, evaluate, and articulate different perspectives while grounding their conclusions in a Christian framework.

Concurrent Enrollment Option: Students may elect to earn Judson College credit for **REL1100 — Introduction to the Christian Religion**. An additional **enrollment fee** applies.

Foreign Language

Spanish I (10)

Students develop beginning proficiency in Spanish through foundational vocabulary, grammar, pronunciation, reading, writing, listening, and conversation. Students also develop an appreciation for Spanish-speaking cultures and communities.

Spanish II (11)

Students build upon foundational Spanish skills by expanding vocabulary, grammatical structures, reading comprehension, writing, listening, and conversational ability. Cultural study provides context for practical language use and communication.

Spanish III (12) - Honors

Students develop greater proficiency and sophistication in Spanish through expanded grammar, vocabulary, conversation, reading, writing, and cultural study. The Honors course emphasizes more advanced communication, analysis, and independent use of the language.

Physical Education

High School Health and Physical Education (9)

Students participate in structured strength, conditioning, mobility, and fitness activities designed to improve physical performance and overall fitness. Instruction emphasizes proper technique, safety, discipline, consistency, and responsible training habits.

Strength and Conditioning, Optional Elective

Students participate in additional physical activity and fitness experiences designed to promote physical health, teamwork, discipline, and lifelong wellness. Additionally, students create their own individual workout plan.

Additional Electives

Teacher Assistant

Students serve in an approved teacher-assistant capacity, developing responsibility, leadership, communication, organization, and service skills while supporting faculty and staff.

Communication Studies

Students develop practical communication skills for academic, professional, and interpersonal settings. Instruction emphasizes effective speaking, listening, presentation, collaboration, and clear communication. Students prepare the school newsletter and yearbook.

Concurrent Enrollment at a Glance

Eligible Honors courses may be taken for concurrent college credit through Judson College. The college-credit option is **optional** and carries an additional **fee**, paid to C@SE upon enrollment.

Iron Academy Course	Grade	Judson College Course	Course Title
Honors World Geography	9	GEO2500	World Geography
Honors Algebra 2	10	MAT1600	College Algebra
Honors World History II	10	HIS1120	World History II
Honors Composition I	11	ENG1110	English Composition I
Honors U.S. History	11	HIS3510	American History I
Honors Physics	11/12	SCI1610	Introductory Physics
Honors Composition II	12	ENG1120	English Composition II
Honors U.S. Constitution	12	POL3500	U.S. Constitution & American Government
Honors Christian Religion & Competing Worldviews	11/12	REL1100	Introduction to the Christian Religion

Concurrent enrollment allows students to complete college-level work while remaining in Iron Academy's academic and discipleship environment. All concurrent courses are taught by Iron Academy faculty.

College-credit note: The Judson College course listed represents the corresponding college course for the concurrent enrollment option. Students and families should consult individual colleges and universities regarding how transferred credit will be applied toward a particular degree or program.

Course Rotation

Several Iron Academy courses operate on an alternating-year schedule. The rotation is used for courses in which the sequence does not require a particular annual order.

Odd Year means that the fall semester begins in an odd-numbered calendar year. For example, the 2027–28 academic year is an Odd Year.

Even Year means that the fall semester begins in an even-numbered calendar year. For example, the 2026–27 academic year is an Even Year.

Policy on Accelerating High School Math

IA is already on an accelerated schedule for math, offering Algebra 1 in the 8th grade. This track naturally culminates in the opportunity for AP calculus as a senior, which is the highest level of high school math offered by IA. Should any student accelerate further, the families will need a plan for what will happen when the student is a senior (or possibly earlier) and could potentially be out of HS Math options.

- Although HS math credits can be achieved during middle school (although not factoring in a high school GPA), many colleges want to see a math course each year of high school, and these courses need to follow a logical progression of thought.
- Taking a class that is not grade level often affects other parts of the schedule and sometimes may not be possible at all (for us to accommodate). Additionally, if IA can't fit the higher level into the student's schedule, options outside of IA would have to be pursued (by the family involved) for the course. Any cost associated with these non-IA courses would be the sole responsibility of the family involved.
- If acceleration is still desired, the following criteria must be met:
 1. The student must have an average of 97 (or higher) in their current math course.
 2. The student must have a stanine of 9 for a composite math score as well as a national percentile ranking of 97 or higher. This test must be nationally recognized and is subject to the approval of Iron Academy.
 3. The student must have a recommendation from their current math teacher to accelerate.
 4. The student/family must submit a plan of action to IA (Guidance Counselor/Registrar) for how they plan for a) ensuring their son will have a math course each year of high school and b) being able to provide the needed accelerated math if IA can not fit it into the student's schedule.

Graduation Preparation

Minimum Graduation Requirements:

English	4 credits
Mathematics	4 credits
Science	4 credits
History	4 credits
Bible & Philosophy	1 credit per year enrolled at IA
Foreign Language	2 credits
PE/Health	1 credit
Elective	1 credit

Iron Academy's goal is not simply to prepare students to enter college, but to graduate young men who are prepared to think deeply, communicate clearly, act responsibly, lead courageously, and live faithfully.

Iron Academy Intellectual Formation: Academic excellence. Biblical truth. Purposeful preparation.