

IMSA Course Offerings

Visit www.imsa.edu/team/cac for course descriptions and other information.

Courseload Requirements

Students must enroll in a minimum of 5 academic courses each semester. Fine Arts and Wellness do not constitute academic courses. Students taking 6 courses may take one course pass/fail. Students taking 7 courses must take one course pass/fail. If a performing Fine Arts course is taken as an 8th course, it must be taken pass/fail, and one other course pass/fail. All courses except Wellness that serve to fulfill graduation requirements must be taken for a grade.

Mathematics

Core Courses:

Geometry I, II

Mathematical Investigations I, II, III, IV

AB Calculus I, II

- or -

BC Calculus I, II, III

*proficiency testing is required for appropriate placement

Math Electives:

Advanced Geometry

Advanced Problem Solving

Advanced Topics in Mathematics

Introduction to Algebraic Structures I, II

AP Computer Science

Assembly Language Programming

Computer Seminar

Data Analysis

Differential Equations

Discrete Mathematics

Exploring Math Topics Using Mathematica™

Introduction to C++

Multivariable Calculus

Number Theory

Problem Solving

Senior Research Project

Science*

Core Courses:

Class of 2002:

Sophomore Science and University Biology

Class of 2003:

Scientific Inquiry+

Class of 2004:

Scientific Inquiry+

Biology Electives:

Biotechnology

Ecology

Environmental Science

General Microbiology

Genetics

Historical and Structural Geology

Human Anatomy and Physiology

Pathogenic Microbiology

Patterns of Biological Diversity

Plants and People

Chemistry Electives:

Advanced Chemistry:

Matter and Molecules

Reactions and Qualitative Analysis

Biochemistry

Facets of Thermodynamics

Methods in Chemical Research

Organic Chemistry I, II

Survey of Organic Chemistry

Physics Electives:

Advanced Physics

Astrophysics

Calculus-based Physics/Mechanics

Calculus-based Physics/Electricity & Magnetism

Electronics

Geophysics

Observational Astronomy

Topics in Modern Physics

Other Courses:

Junior Project in Science

Senior Research Project

Wellness Education

(pass/fail only)

Sophomore Wellness

Wellness Electives

Senior Research Project

Social Science

Core Courses:

American Studies

Topics in World Studies

Senior Social Science Electives:

European History

International Relations

Macroeconomics

Microeconomics

Politics and Society

Psychology

Science, Revolution, Ideology and the Arts

(Social Science I, II)

(0.5 credit in Social Science, 0.5 credit in Science)

Topics in Psychology

Topics in Recent U.S. History

Utopia/Anti-Utopia (year long)

(1.0 credit in Social Science, 1.0 credit in English)

Senior Research Project

2001

All are honors courses.

English

Core Courses:

Sophomore English

Junior English

Senior English Electives:

Belief in Question in Modern Literature

Masterworks:

Chaucer's Canterbury Tales

Topics in American Literature:

Modern Poetry (year long)

Modern Irish Literature

Modern World Fiction

Portraits of Creativity

Russian Consciousness in Literature

Science, Revolution, Ideology and the Arts

(English I, II)

The Idea of the Individual

Senior Research Project

Foreign Language

French I, II, III, IV, V

German I, II, III, IV, V

Japanese I, II, III

Russian I, II, III

Spanish I, II, III, IV, V

Independent Study

Senior Research Project

Fine Arts

Art Design I

AP Music Theory

Ceramics

Chamber Choir

Concert Choir

Photography

Symphonic Band

Symphonic Wind Ensemble

Symphony Orchestra

Senior Research Project

*All Science courses except Calculus-Based Physics and Pathogenic Microbiology are laboratory-based.

+Interdisciplinary program integrating content from physics, chemistry, biology, earth and space science, and technology.

Graduation Requirements

Class of 2002

In light of IMSA's selective admission process and in order to promote collaborative exploration and discovery, the Academy does not provide grade point averages nor class rankings. All courses are taught at the honors level.

Mathematics/Science 8.0 credits

8.0 credits in Mathematics and Science which must include:

- minimum 4.0 credits in science including at least 1.0 credit above the introductory required courses in chemistry, physics and biology or integrated science.
- at least 3.0 credits in mathematics which include core courses that move toward completion of calculus. Students are to be enrolled in a mathematics course each semester.
- at least one additional credit in mathematics or science.

Social Science 2.5 credits

American Studies, World Studies and one semester elective.

English 3.0 credits

Sophomore English, Junior English and one senior elective each semester of senior year.

Foreign Language 2.0 credits

2.0 credits taken during two of the three years at the Academy, including completion of an Academy Level II course.

Fine Arts 0.5 credit

Wellness

Fulfilled by completing a three-year program in Wellness Education.

Senior Research/Independent Study Project (optional)

An optional research project or independent study is available on an approval basis only for 0.25-2.0 credits per semester.

Community Service and Campus Work Service

Each student must satisfactorily complete 80 hours of community service and 270 hours of campus work service.

Total Graduation Requirements

Equal 16.0 credits for grades 10-12 at the Academy. This allows for flexibility in student choices during the senior year, including time for in-depth study in particular courses and topics of interest. Generally, one credit is equal to one year of study.

Grade Distribution

Class of 2002

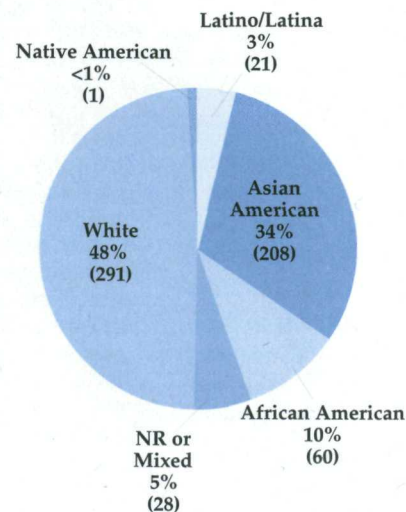
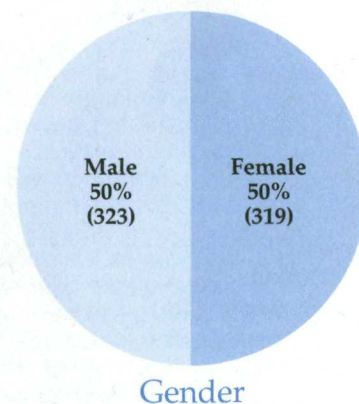
Fall 2000 Grade Distribution

Course	Number	A	B	C	D	P	F
Mathematics							
Core:	195	34%	37%	18%	5%	0%	0%
Electives:	72	40%	38%	8%	0%	11%	0%
Science Core							
University Biology	180	47%	40%	9%	2%	0%	0%
Science Electives							
Chemistry	41	66%	22%	2%	0%	5%	0%
Physics	53	55%	28%	11%	0%	6%	0%
English Core							
Junior English	194	81%	17%	0%	0%	0%	0%
Social Studies Core							
World Studies	193	57%	39%	2%	1%	0%	0%
Foreign Language							
	196	54%	34%	9%	1%	0%	0%
Fine Arts							
	82	37%	21%	4%	0%	37%	0%

Spring 2001 Grade Distribution

Course	Number	A	B	C	D	P	F
Mathematics							
Core:	182	24%	48%	20%	6%	0%	0%
Electives:	68	43%	29%	13%	1%	9%	0%
Science Core							
University Biology	174	43%	41%	14%	1%	0%	0%
Science Electives							
Biology	44	57%	16%	7%	0%	20%	0%
Chemistry	32	56%	22%	6%	3%	9%	0%
Physics	50	54%	28%	8%	2%	8%	0%
English Core							
Junior English	188	80%	19%	3%	2%	0%	0%
Social Science Core							
World Studies	189	58%	36%	3%	2%	0%	0%
Foreign Language							
	187	65%	26%	9%	0%	0%	0%

Total 2001-2002 Student Population



Ethnic Distribution

IMSA Testing Highlights

- Mean SAT I composite score for IMSA Seniors was 1354, 334 points above the national average for college-bound seniors.
- Mean ACT composite score for IMSA seniors was 29.6, 8.6 points above the national average for college-bound seniors.
- Of IMSA students taking the Advanced Placement Examinations, 85% of IMSA students scored "3" or better and 64% scored "4" or better.
- A total of 35 members of the IMSA Class of 2001 were named Semifinalists in the National Merit Program. 4 students received the National Achievement honor. Two students were cited in the National Hispanic Recognition Program.
- Mean SAT II score for IMSA seniors taking the Mathematics Level-IIC Test was 744, 81 points higher than the national average for college-bound seniors. Mean IMSA score for the English Writing SAT II Test was 664, 69 points above the national average for college-bound seniors.

Preliminary Scholastic Assessment Test (PSAT) Scores *Class of 2001 - Middle 50% Ranges and Means*

	IMSA Mean (N=186)	IMSA Middle 50% Range	Illinois Mean	National Mean
Verbal	64.3	58.6 - 70.0	49.3	48.3
Math	69.7	65.0 - 74.4	50.6	49.4
Writing Skills	61.4	55.1 - 67.7	49.6	48.7

Scholastic Assessment Test (SAT I) Scores *Class of 2001 - Middle 50% Ranges and Means*

	IMSA Mean (N=229)	IMSA Middle 50% Range	Illinois College-Bound Senior Mean	All College-Bound Senior Mean
Verbal	652	600 - 710	576	506
Math	702	650 - 760	589	514

American College Testing (ACT) Scores *Class of 2001 - Middle 50% Ranges and Means*

	IMSA Mean (N=209)	IMSA Middle 50% Range	Illinois College-Bound Senior Mean	All College-Bound Senior Mean
Verbal	28.6	26.4 - 31.7	21.1	20.5
Mathematics	31.4	29.8 - 33.7	21.5	20.7
Reading	29.5	26.4 - 33.8	21.8	21.3
Science Reasoning	28.3	25.5 - 31.5	21.6	21.0
Composite	29.6	27.8 - 31.9	21.6	21.0

Class of 2001

<i>College</i>	<i>A</i>	<i>EN</i>	<i>College</i>	<i>A</i>	<i>EN</i>	<i>College</i>	<i>A</i>	<i>EN</i>
American University.....	2	0	Hampshire College.....	1	0	St. Olaf College.....	1	0
Amherst College.....	4	0	Harvard and Radcliffe Colleges.....	2	2	San Diego State University.....	1	1
Antioch College.....	1	0	Harvey Mudd College.....	3	0	Simmons College.....	1	0
Arizona State University.....	3	1	Haverford College.....	1	0	Southern Illinois University.....	1	0
Art Institute of Chicago.....	1	1	Hope College.....	1	1	Spelman College.....	2	1
Augustana College.....	4	2	Howard University.....	1	0	Stanford University.....	8	3
Babson College.....	1	1	Illinois Institute of Technology.....	8	3	Swarthmore College.....	1	0
Ball State University.....	1	1	Illinois State University.....	4	1	Syracuse University.....	1	0
Beloit College.....	5	0	Illinois Wesleyan University.....	13	4	Trinity College.....	1	1
Benedictine University.....	2	1	Indiana University.....	5	0	Truman State University.....	7	0
Boston College.....	4	0	Indiana University of Pennsylvania.....	1	0	Tufts University.....	2	0
Boston University.....	10	2	Iowa State University.....	11	0	Tulane University.....	12	2
Bowdoin College.....	1	0	Johns Hopkins University.....	6	2	Union College.....	2	0
Bowling Green State University.....	1	0	Kent State University.....	2	0	United States Air Force Academy.....	1	0
Bradley University.....	12	2	Kenyon College.....	1	0	United States Military Academy.....	1	1
Brandeis University.....	2	0	Knox College.....	11	3	United States Naval Academy.....	4	0
Brown University.....	3	2	Lake Forest College.....	1	0	University of California-Berkeley.....	2	0
Bryn Mawr College.....	2	1	Lawrence University.....	5	2	University of California-Los Angeles.....	1	1
Bucknell University.....	2	0	Loyola University at Chicago.....	15	0	University of California-Oakland.....	1	0
Butler University.....	4	2	Macalester College.....	5	1	University of California-Riverside.....	1	0
California Institute of Technology.....	2	1	Marquette University.....	3	0	University of Chicago.....	21	8
Carleton College.....	5	1	Massachusetts Institute of Technology.....	12	5	University of Colorado-Boulder.....	1	0
Carnegie Mellon University.....	10	5	McGill University.....	1	1	University of Hawaii.....	1	0
Case Western Reserve University.....	5	0	Miami University.....	1	0	University of Illinois-Chicago.....	28	11
Chapman University.....	1	0	Michigan State University.....	8	0	University of Illinois-Springfield.....	2	1
Claremont McKenna College.....	2	0	Millikin University.....	1	1	University of Illinois-Urbana.....	173	67
Clarkson University.....	1	0	Milwaukee School of Engineering.....	4	1	University of Iowa.....	22	5
Colby College.....	1	0	Monmouth College.....	2	0	University of Maryland.....	1	0
Columbia College.....	2	1	New York University.....	6	1	University of Miami.....	5	0
Columbia University.....	2	1	North Carolina School of the Arts.....	1	0	University of Michigan.....	12	0
Cooper Union.....	1	0	Northeastern Ohio University.....	3	0	University of Missouri-Columbia.....	2	1
Cornell University.....	17	4	Northern Illinois University.....	7	1	University of Missouri-Kansas City.....	6	2
Creighton University.....	2	0	Northland College.....	1	1	University of Missouri-Rolla.....	7	0
Dartmouth College.....	3	1	Northwestern University.....	35	9	University of North Carolina-Chapel Hill.....	4	0
Davidson College.....	1	0	Oberlin College.....	3	0	University of Notre Dame.....	2	1
Denison University.....	2	0	Occidental College.....	2	1	University of Pennsylvania.....	4	1
DePaul University.....	5	2	Ohio Northern University.....	1	0	University of Pittsburgh.....	1	0
DePauw University.....	1	0	Ohio State University.....	3	0	University of Rochester.....	1	1
Dickinson College.....	1	0	Ohio Wesleyan University.....	2	0	University of San Diego.....	1	1
Drexel University.....	4	1	Olin College of Engineering.....	3	2	University of Southern California.....	14	6
Duke University.....	7	3	Oxford College.....	1	0	University of St. Andrews.....	1	0
Earlham College.....	1	0	Pennsylvania State University.....	4	0	University of Texas-Austin.....	1	0
Eckerd College.....	3	2	Pepperdine University.....	1	0	University of Virginia.....	2	0
Elmhurst College.....	1	1	Pomona College.....	1	0	University of Wisconsin-Madison.....	19	5
Embry-Riddle Aeronautical University.....	1	0	Purdue University.....	24	2	University of Wisconsin-Platville.....	1	0
Emerson College.....	1	0	Randolph-Macon Woman's College.....	1	0	Valparaiso University.....	2	0
Emory University.....	4	1	Reed College.....	4	0	Vanderbilt University.....	2	0
Florida A & M University.....	2	0	Rennselaer Polytechnic Institute.....	4	0	Virginia Institute of Technology.....	1	0
Florida Institute of Technology.....	1	0	Rhode Island School of Design.....	1	1	Washington University.....	22	6
Florida State University.....	4	0	Rhodes College.....	1	0	Webster University.....	1	0
Franklin and Marshall College.....	1	0	Rice University.....	8	2	Wellesley College.....	2	1
George Washington University.....	7	1	Robert Morris College.....	1	1	Western Illinois University.....	2	1
Georgetown University.....	3	1	Rochester Institute of Technology.....	1	0	Williams College.....	1	0
Georgia Institute of Technology.....	4	0	Rose-Hulman Institute of Technology.....	5	0	Worcester Polytechnic University.....	1	0
Grinnell College.....	3	0	Rutgers University.....	1	0	Xavier University.....	4	0
Gustavus Adolphus College.....	1	0	St. Louis University.....	7	5	Yale University.....	3	0

A=Accepted EN=Enrolled