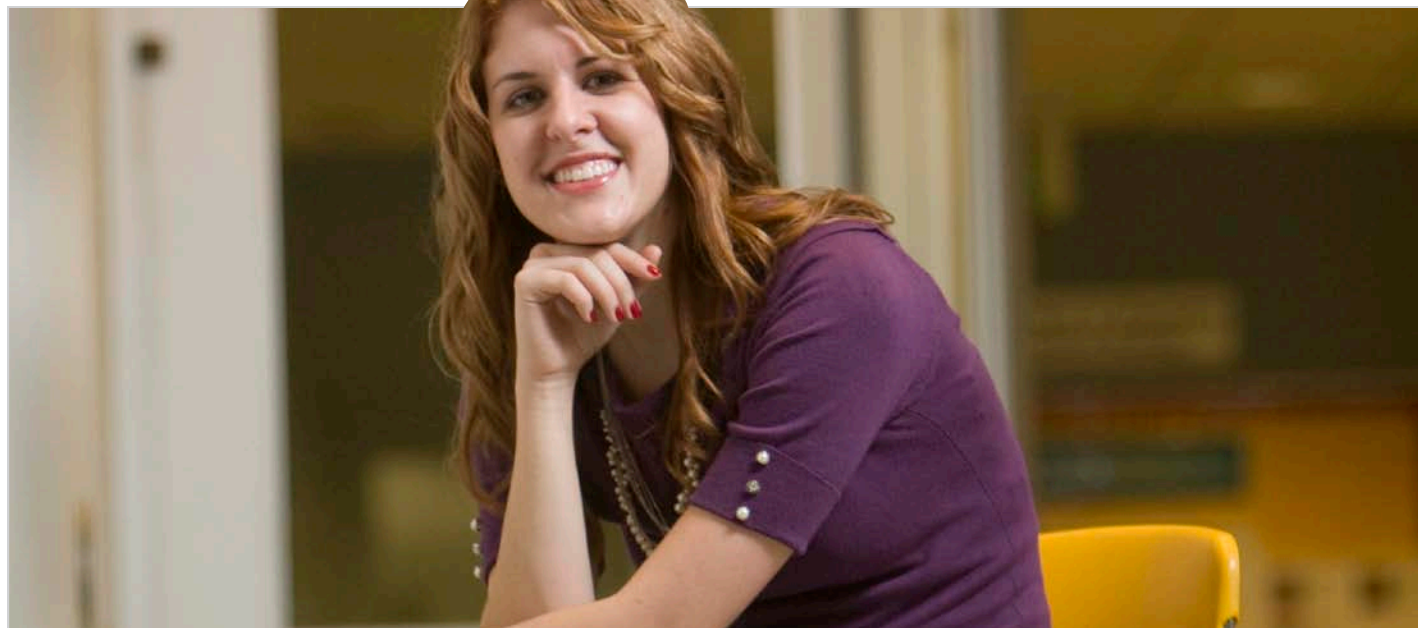


Top Caliber Students



Enrolled Majors (Fall 2008)

DEGREE PROGRAM	Undergraduate	Graduate*	Total
Biology (including Biotechnology)	571	101	672
Chemistry & Chemical Biology	182	41	223
Computer & Information Science	103	68	171
Environmental Sciences	27	16	43
Forensic & Investigative Science	95	0	95
Mathematical Sciences	127	79	206
Physics	21	21	42
Psychology	469	51	520
School Total	1595	377	1972

Credit Hours (August 2008 - May 2009)

DEPARTMENT	2006-07	2007-08	2008-09
Biology (including Biotechnology)	24024	24125	25653
Chemistry & Chemical Biology	14387	14780	16295
Computer & Information Science	7706	8025	8345
Environmental Sciences	6113	6445	6216
Forensic & Investigative Science	430	666	728
Mathematical Sciences	44981	45079	46659
Physics	8486	8725	9429
Psychology	21720	20755	21505
Science	242	305	328
School Total	128089	128905	135158

The School of Science now teaches the largest number of credit hours of any IUPUI academic unit.

BA/MD Program

The newly approved Baccalaureate-MD Program provides a pathway to the Doctor of Medicine (MD) program in the Indiana University School of Medicine.

Master's Degree in Forensic Science

Soon after starting the undergraduate program, Forensic and Investigative Sciences Program Director Jay Siegel soon realized the need for a master's degree, especially as he began working closely with leaders at the Indiana State Police and Marion County crime labs.

Director of Indiana State Police (ISP) Forensic Analysis Eric Lawrence says forensic scientists are in high demand throughout the state and the new master's program will reduce ISP's training costs because graduates will have a deeper knowledge of crime lab processes. Lawrence also believes students with a master's degree in forensic science will have a broad understanding of the practical and theoretical frameworks of forensic science, making them better prepared for collaboration in the laboratory.

While graduates of the new master's program will be prepared for careers in the public sector, Siegel believes they'll also find a wealth of positions in the state's burgeoning life sciences industry—simultaneously helping to fuel its growth.

Ph.D. in Biostatistics

As scientists—and as a society—we are constantly creating and reacting to data. Our ability to analyze and interpret this sea of information is critically important to the future of all the life and health sciences.

The new IUPUI Ph.D. in Biostatistics trains candidates in both the academic discipline of mathematics and the collaborative world of medical and life science research.

IUPUI trained biostatisticians will look through both these lenses to better understand and interpret statistical information. Graduates will serve as independent experts at universities, research institutes, government, and private industry.

The program is a joint offering of the Department of Mathematical Sciences and the Division of Biostatistics in the IU School of Medicine.

Bepko Scholars

IUPUI's most prestigious scholarship program, the Bepko Scholars and Fellows Program provides financial, academic, and programming support to academically motivated and civically engaged students throughout their undergraduate and post-graduate years. And in 2009, seven of eight distinguished Bepko Scholars chose to study in the School of Science.

Woodrow Wilson Fellows

The Woodrow Wilson Indiana Teaching Fellowship program prepares exemplary secondary teachers in science (life science, chemistry, earth space science, physics, and physical science), mathematics, and technology to serve diverse learners in urban settings. This program provides stipends to 80 selected fellows each year who are either recent college graduates or career changers possessing a degree in science, technology, engineering, and/or mathematics. Each Fellow must commit to teach mathematics, science and/or engineering technology education for three years in a high-need Indiana secondary school.

Student Success



Beatrice Thungu

Class of 2010, Biology major • IUPUI 2009 Top Female Student

As a young girl in Kenya, Beatrice spent many afternoons studying the comings and goings of tree frogs. This childhood pastime inspired a desire to take biology courses, and later spurred her dream of becoming a doctor; “I want to make medical care accessible to people—make it so people don’t have to stand in line to be told to come back in two weeks for medication.” Thungu was among IUPUI’s “Top 100” students in 2009 and the Top Female student.

46%

of School of Science 2009 freshmen graduated from the top 10% of their high school class

24

of IUPUI’s Top 100 students in 2009 hailed from the School of Science



Amanda Siegel

Ph.D. Student, Chemistry • American Chemical Society, 2009 Poster Session Award Winner

“I graduated from Yale University with a Bachelor of Science in Physics. After college, I was a stay-at-home mom. Chemistry sparked my imagination, and I took a few undergraduate courses at IUPUI. I was hooked. I love running an experiment not knowing what will happen. Today, I’m focused on the fascinating interplay of membrane proteins and lipids, including, through a collaboration with the IU School of Medicine, protein-lipid interactions on healthy and pre-diabetic cells.”

74%

of undergraduate Science majors are full-time students

96%

of Science majors are Indiana residents

The Next Generation of Scientists



Andrew Strong

2009 Alumnus, B.S. Chemistry & Chemical Biology
Medical Student, Cleveland Clinic

Andrew Strong spent nearly three years working alongside School of Science professors Dr. Martin O'Donnell and Dr. Bill Scott on their Distributed Drug Discovery program (D3), a promising low-cost strategy to accelerate the identification of drugs to treat often-neglected diseases occurring primarily in the world's poorest countries. Strong's multidisciplinary training in chemistry, biology and informatics made him uniquely qualified to help launch the database. Strong, who came to IUPUI as part of the Bepko Scholars and Fellows Program, was among IUPUI's "Top 100" students in 2009 and the Top Male student.



Natasha Arora

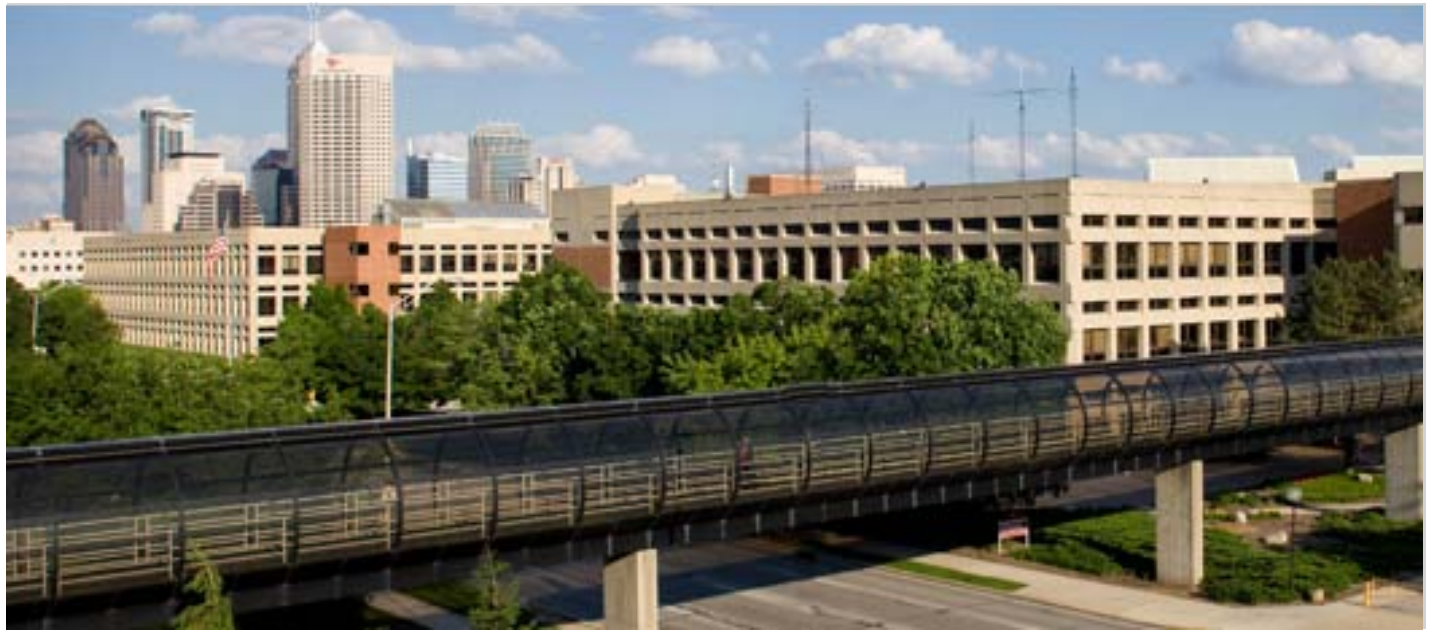
2009 Alumna, School of Science Interdisciplinary Studies Program
Ph.D. Student, Biological and Biomedical Science, Harvard University

As the first graduate of the school's interdisciplinary program with concentrations in molecular biology and math, Natasha Arora was one of only a handful of non-Harvard students ever to be accepted into the Harvard Stem Cell Institute's internship program. For her doctoral thesis, the central Indiana native is focusing on sickle cell anemia, a disease for which new advancements in technology offer some exciting prospects for research. Specifically, Arora will be working at the cellular and molecular levels to find ways of making more definitive red blood cells as possible alternatives for treatment.

Graduates (August 2008 - May 2009)

PROGRAM	Certificate/ AS/BA/BS	MS	Ph.D.	Total
Biology (including Biotechnology)	76	79	1	156
Chemistry & Chemical Biology	33	6	3	42
Computer & Information Science	42	19	0	61
Environmental Sciences	3	5	0	8
Forensic & Investigative Science	9	0		9
Mathematical Sciences	23	16	0	39
Physics	7	3	1	11
Psychology	110	10	5	125
School Total	303	138	10	451

Community Impact



Mission + Impact / STEM Education

The School of Science is committed to teaching, research and civic engagement. Through community outreach and service learning programs, School of Science faculty, staff and students work together to make a positive impact on our local and global communities.

In February 2009, IUPUI was honored to be selected as Indiana's only university to join The Leadership Collaborative, a select group of institutions that have committed to the Science and Mathematics Teacher Imperative. The Science and Mathematics Teacher Imperative is a nationwide effort to increase the pool of qualified science and mathematics teachers in middle and high school classrooms.

The Leadership Collaborative activities have been funded by a \$1.5 million, three-year grant from the National Science Foundation's Math and Science Partnership: Research, Evaluation and Technical Assistance. The collaborative will enable universities to identify and address institutional constraints that often impede the formation of effective and sustained secondary science and mathematics teacher preparation programs.

As part of The Leadership Collaborative, IUPUI will examine ways to strengthen science teacher preparation. IUPUI's contribution will largely be coordinated through UCASE, the Urban Center for the Advancement of STEM (science, technology, engineering and math) education. This partnership between the Leadership Collaborative and UCASE will become an important part of our efforts to substantially strengthen STEM teacher preparation in Indiana.

Discovering the Science of the Environment

Discovering the Science of the Environment provides free educational experiences at natural areas on location at K-12 schools. Utilizing a mobile resource trailer equipped with interactive technology tools, web interface, and GIS mapping capabilities, this program allows 4th-9th grade students to conduct outdoor scientific investigations dealing with water quality, soil studies, and more.

All programs are aligned to Indiana State Standards in science and mathematics, and Excellence in Environmental Education Guidelines for Learning (Pre K-12). Content can be tailored to suit individual school-ground environments, educational needs, student and teacher knowledge base, and allotted time. The Discovering the Science of the Environment program travels to schools in Marion, Boone, Hamilton, Madison, Hancock, Shelby, Johnson, Morgan, and Hendricks Counties.

Project Lead the Way

The IUPUI campus is one of three national teacher training sites for Project Lead the Way. Project Lead The Way's Summer Training Institute is a professional development program for high school teachers that covers a year's worth of curriculum in two weeks. The IUPUI School of Science hosts a Summer Training Institute for biomedical sciences high school curriculum, helping to bolster STEM education across Indiana and the U.S.

Service Learning

At IUPUI, students, faculty, and staff participate in educational service activities that mutually benefit the campus and community. We call this "service learning." School of Science departments have distinct service learning opportunities; these are course-based, credit-bearing educational experiences.

One long-standing service learning project is a joint effort between the Center for Earth and Environmental Sciences and Indy Parks and Recreation. Focusing on environmental issues at the Scott Starling Sanctuary, the project's goals include the restoration of wetlands, the reestablishment of a riparian forest, and the improvement of native habitats through the removal of invasive exotic species. This type of hands-on learning gives IUPUI students the chance to actively address the problems and situations discussed in lecture classes while making a positive impact on their community.

LIFE + HEALTH SCIENCES IN INDIANAPOLIS



Life and health sciences represent one of Indiana's fastest growing industries. A report published by the Indiana Business Review states that employment in the state's life science industries grew at an average annual rate of 2.8 percent between 2001 and 2007 — more than twice the national rate of 1.2 percent. This report further asserts that the average annual wage for a job in the life sciences was \$82,000, which is more than twice Indiana's average wage for all employment.

PHILANTHROPY

"Indiana is a giving place," says IUPUI Chancellor Charles R. Bantz. "A place where individuals, families and organizations demonstrate extraordinary commitment to community."

GIFTS TO SCIENCE

Individuals	\$176,990
Corporations	\$46,131
Foundations	\$38,670
Other	\$167,110
Total	\$368,701.80

School Leadership

Deans Bart S. Ng
Acting Dean
Marvin L. Bittinger Professor of Mathematical Sciences
James Murphy
Associate Dean for Research & Graduate Education
Professor, Department of Psychology
Andrew Gavrin
Associate Dean for Faculty Affairs & Undergraduate Education
Associate Professor, Department of Physics

Department Chairs N. Douglas Lees
Professor and Chair, Biology
Jay Siegel
Professor and Chair, Department of Chemistry & Chemical Biology
Director, Forensic & Investigative Sciences Program
Shiaofen Fang
Professor and Chair, Department of Computer & Information Science
Gabriel Filippelli
Professor and Chair, Department of Earth Sciences
Benzion Boukai
Professor and Chair, Department of Mathematical Sciences
Gautam Vemuri
Professor and Chair, Department of Physics
Kathy E. Johnson
Professor and Chair, Department of Psychology

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Angie Swift, '05
Eric Tinsley, '82 '86 My Health Care Manager, LLC
Lorraine Wright, '91 Indiana Department of Environmental Management

The image features a dark red background with several white, wavy, horizontal lines that create a sense of movement and depth. The lines are layered, with some appearing in front of others, and they generally trend downwards from left to right. The overall effect is modern and minimalist.

IUPUISCIENCE