Illinois Institute of Technology's New Online Bulletin

IIT is implementing a new online catalog management tool named CourseLeaf (www.courseleaf.com) for Fall 2016.
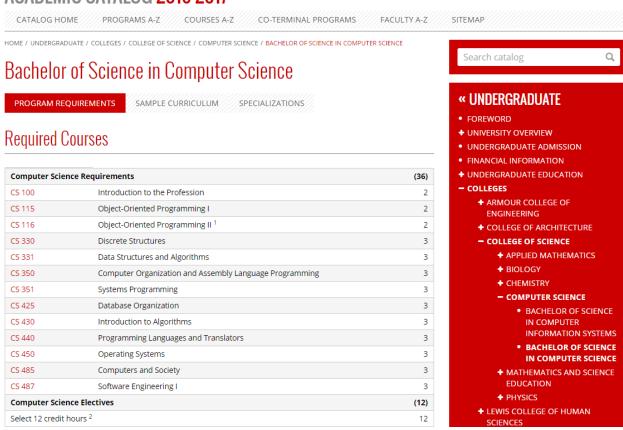
As part of the online catalog implementation, IIT has converted to an annual bulletin, and the new 2016-2017 Undergraduate and Graduate Bulletins will be hosted on an intuitive web platform. Future bulletin revision cycles will be managed through an online workflow process, removing the need for a pen-and-paper mark-up.

Below is a preview of the new bulletin format, which will be available online in the Fall.

Questions? Email Sarah Pariseau at sparisea@iit.edu.

Undergraduate program page example:

ACADEMIC CATALOG 2016-2017

CATALOG HOME   PROGRAMS A-Z   COURSES A-Z   CO-TERMINAL PROGRAMS   FACULTY A-Z   SITEMAP

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Bachelor of Science in Computer Science

PROGRAM REQUIREMENTS   SAMPLE CURRICULUM   SPECIALIZATIONS

Required Courses

Computer Science Requirements		(36)
CS 100	Introduction to the Profession	2
CS 115	Object-Oriented Programming I	2
CS 116	Object-Oriented Programming II [1]	2
CS 330	Discrete Structures	3
CS 331	Data Structures and Algorithms	3
CS 350	Computer Organization and Assembly Language Programming	3
CS 351	Systems Programming	3
CS 425	Database Organization	3
CS 430	Introduction to Algorithms	3
CS 440	Programming Languages and Translators	3
CS 450	Operating Systems	3
CS 485	Computers and Society	3
CS 487	Software Engineering I	3
Computer Science Electives		**(12)**
Select 12 credit hours [2]		12

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« UNDERGRADUATE

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  - — COLLEGE OF SCIENCE
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      - BACHELOR OF SCIENCE IN COMPUTER INFORMATION SYSTEMS
      - **BACHELOR OF SCIENCE IN COMPUTER SCIENCE**
    - ✚ MATHEMATICS AND SCIENCE EDUCATION
    - ✚ PHYSICS
  - ✚ LEWIS COLLEGE OF HUMAN SCIENCES

Bachelor of Science in Computer Science Curriculum

YEAR 1			
SEMESTER 1	**CREDIT HOURS**	**SEMESTER 2**	**CREDIT HOURS**
CS 100	2	CS 116[1]	2
CS	2	MATH 152	5
	5	PHYS 123	4
0-level Course	3	Humanities Elective (300+)	3
Elective	3	Social Sciences Elective (300+)	3
	15		17

CS 100

Introduction to the Profession

An introduction to science and engineering as a profession. Examines the problem-solving process used in engineering and science. Emphasizes the interdisciplinary and international nature of problem-solving and the need to evaluate solutions in terms of a variety of constraints: computational, financial, and social.
LECTURE: 1 **LAB:** 2 **CREDITS:** 2
SATISFIES: Communications (C)

	CREDIT HOURS	**SEMESTER 2**	**CREDIT HOURS**
CS 331	3	CS 350	3
CS 330	3	CS 430	3
MATH 251	4	MATH 332 or 333	3
PHYS 221	4	Humanities Elective (300+)	3
Social Sciences Elective (300+)	3	Science Elective[2]	3
	17		15

Graduate program page example:

ACADEMIC CATALOG 2016-2017

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Master of Health Physics

OVERVIEW   PROGRAM REQUIREMENTS   SPECIALIZATIONS

31 credit hours minimum
Comprehensive examination

Designed primarily for working professional health physicists in government, medicine, research, and industry, this program combines technical depth with the interdisciplinary viewpoints of leadership, management, and communications. The degree can be completed in four semesters and two summer sessions of part-time study. Applicants must have completed coursework in calculus through differential equations and a calculus-based general physics sequence. A course in modern physics, including some basic quantum mechanics, is strongly recommended.

This program is also available on the web, and at televised viewing sites throughout the Chicago area. Students should consult iit.edu/iit online/ for more information.

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UNDERGRADUATE

« GRADUATE

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- + GRADUATE EDUCATION
- – COLLEGES
  - + ARMOUR COLLEGE OF ENGINEERING
  - CHICAGO-KENT COLLEGE OF LAW
  - + COLLEGE OF ARCHITECTURE
  - – COLLEGE OF SCIENCE

Master of Health Physics

Curriculum

Required Courses		(31)
PHYS 561	Radiation Biophysics	3
PHYS 571	Radiation Physics	3
PHYS 572	Introduction to Health Physics	3
PHYS 573	Standards, Statutes and Regulations	3
PHYS 575	Case Studies in Health Physics	3
PHYS 576	Radiation Dosimetry	3
PHYS 770	Instrumentation for Health Physics	3
Select a minimum of two courses from the following:		6
CHEM 513	Statistics for Analytical Chemists	3
SCI 511	Project Management	3
SCI 522	Public Engagement for Scientists	3
Select a minimum of two courses from the following:		4
PHYS 566	Environmental Health Physics	2
PHYS 574	Introduction to Nuclear Fuel Cycle	2
PHYS 577	Operational Health Physics	2
PHYS 578	Medical Health Physics	2
Total Credit Hours		**31**

Departmental course index example:

Physics

PHYS 501

Methods of Theoretical Physics I

Vector analysis including curvilinear coordinates. Tensor algebra. Ordinary differential equations and special functions. Complex variables algebra, Cauchy-Riemann conditions, harmonic functions. Cauchy theorem, Cauchy formula. Laurent series. Residues calculus, calculation of integrals using residues. Partial differential equations: separation of variables, Fourier series methods. Laplace, wave, diffusion equations in Cartesian, cylindrical and spherical systems of coordinates. Special functions and orthogonal polynomials: Bessel functions, Legendre polynomials, associated Legendre polynomials, Hermite, Laguerre, etc. polynomials.

LECTURE: 3 **LAB:** 0 **CREDITS:** 3

PHYS 502

Methods of Theoretical Physics II

Green functions. Their connection with a complex variables calculus. Advanced, retarded, causal GF. Group theory. Discrete groups, elementary examples and properties. Lie groups, their fundamental properties, applications in quantum mechanics. O(3), SU(2), SU(3), Lorentz groups and their applications in quantum theory. Basic ideas of differential geometry and topology. Path integrals. Special topics specified on the year-by-year basis.

LECTURE: 3 **LAB:** 0 **CREDITS:** 3