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The College of Information Science and Technology

The [College of Information Science and Technology](#) is also known as "The *iSchool* at Drexel." This identity highlights the College's participation in The I-Schools Caucus, and its status as a founding member of the organization. The I-Schools Caucus is a national alliance of library, information science and information system schools, the purpose of which is to raise awareness and understanding of the information sciences as a cutting-edge and progressive field of study.

The College of Information Science and Technology educates interdisciplinary professionals to provide information services and systems to meet a wide range of needs. The College complements its educational programs with research that increases the benefits of information science and technology for all sectors of society.

The College offers the following bachelor degree programs:

[Bachelor of Science in Information Systems](#)

[Bachelor of Science in Information Technology](#)

[Bachelor of Science in Software Engineering](#)

General Information

The College offers the majors in Information Systems and Information Technology both as four and five-year programs, and offers the Software Engineering major as a five-year program. The degree programs are open to freshmen and transfers from other departments at Drexel and other universities. Students have access to the College of Information Science and Technology's Computing Resource Center and the computing facilities available to all Drexel students.

Transfer admission occurs in the fall and winter terms only due to the sequence of required courses. Internal transfer students can be admitted any term. Please contact a College advisor for more information.

The College of Information Science and Technology offers graduate work leading to the degrees of [Master of Science, Library and Information Science](#); [Master of Science in Information Systems](#); [Master of Science in Software Engineering](#); and [Doctor of Philosophy](#).

[Co-operative education](#), [academic eligibility requirements](#), [acceptance of transfer students](#), and [career services](#) are described in detail in the [Drexel University Undergraduate Admissions](#) web site.



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Information Systems

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Drexel's [College of Information Science and Technology](#) offers a Bachelor of Science Degree in Information Systems (BSIS) to meet the growing demand for individuals skilled in the development and management of information systems. This forward-looking program for undergraduates offers a solid background in liberal arts and sciences as well as the skills and knowledge needed to design, create, manage, and effectively use modern information systems.

The [Information Systems curriculum](#) has no single application focus. It is directed to the art and science of managing information in all application environments. Students learn how to determine information needs, design appropriate information systems, manage those systems, and measure the systems' performance. The emphasis is on the users of computers, and on building professional-level information systems skills.

The BSIS is accredited by the Computing Accreditation Commission (CAC) of the Accreditation Board for Engineering and Technology (ABET).



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Information Systems

Bachelor of Science Degree: 188.0 credits

Degree Requirements

Information systems requirements		77.0 Credits
INFO 101	Introduction to Information Technology	3.0
INFO 102	Introduction to Information Systems	3.0
INFO 105	Information Evaluation, Organization, and Use	3.0
INFO 108	Foundations of Software	4.0
INFO 110	Human-Computer Interaction I	3.0
INFO 151	IS Software I: User Needs	3.0
INFO 152	IS Software II: Connections	3.0
INFO 153	IS Software II: Construction	3.0
INFO 154	IS Software II: Challenges	3.0
INFO 200	Systems Analysis I	3.0
INFO 210	Database Management Systems	3.0
INFO 215	Social Aspects of Information Systems	3.0
INFO 330	Computer Networking Technology I	4.0
INFO 355	Systems Analysis II	3.0
INFO 420 WI	Software Project Management	3.0
INFO 425 WI	Design Problem I	3.0
INFO 424	Team Project Practicum	3.0
INFO 426 WI	Design Problem II	3.0
Required Concentration courses*		6.0
Information Systems electives**		15.0

*Concentration options:

Database Management Systems (INFO 365 and INFO 366)
 Distributed Computing and Networking (INFO 340 and INFO 341)
 Human-Centered Computing (INFO 405 and either PSY 337 or INFO 310)
 Information Retrieval and Analysis (INFO 300 and INFO 435)
 Computer Science (See advisor; CS minor required)

**Any non-required INFO course.

Behavioral science requirements

21.0 Credits

PSY 101	General Psychology	3.0
PSY 330	Cognitive Psychology	3.0
SOC 101	Introduction to Sociology	3.0
or		
ANTH 101	Cultural Diversity	
SOC 250	Research Methods I	3.0
SOC 350	Research Methods II	3.0
Behavioral Science electives*		6.0

* Any non-required course offered by the AFAS, ANTH, PSYCH, SOC or WMST departments.

Mathematics/natural science requirements		24.0 Credits
MATH 101	Introduction to Analysis I	4.0
MATH 102	Introduction to Analysis II	4.0
or		
MATH 121	Calculus I	4.0
MATH 122	Calculus II	4.0
MATH 180		4.0
Discrete Computational Structures		4.0
Natural science sequences*		8.0-9.0
Math or science elective**		3.0-4.0

* Students select one of the following course sequences:

CHEM 101 and CHEM 102
 CHEM 111 and CHEM 112
 ENVR 260/261 and ENVR 262/263
 PHYS 103 and PHYS 104
 PHEV 145 and PHEV 146
 BIO 102 and BIO 104
 BIO 151, CHEM 151, and PHYS 151
 or PHYS 111 and PHYS 112.

** Any non-required science or math course.

Arts/humanities requirements		24.0 Credits
ENGL 101	Expository Writing and Reading	3.0
ENGL 102	Persuasive Writing and Reading	3.0
ENGL 103	Analytical Writing and Reading	3.0
PHIL 105	Critical Reasoning	3.0
PHIL 111	Beginning Logic	3.0
COM 230	Techniques of Speaking	3.0
COM 310 WI	Technical Communication	3.0
Arts/Humanities electives*		3.0

* Any non-required course offered by the COM, HIST, ENGL, PHIL, PSCI, ARTH, FMVD, VSST, and WRIT departments or any foreign language course.

University and college requirements		2.0 Credits
UNIV 101	The Drexel Experience	2.0

Other courses	16.0 Credits
Free electives	16.0

Business requirements **24.0 Credits**

IST students who take all their courses at Drexel can qualify for a minor in business. Course grades of a C or higher is required for the courses to count toward a business minor. Students should see their advisors for more information.

ECON 201	Economics I	4.0
ECON 202	Economics II	4.0
ORGB 300 WI	Organizational Behavior	4.0
STAT 201	Statistics I	4.0
STAT 202	Statistics II	4.0

Students select one additional business course from the following:

ACCT 115	Financial Accounting Foundations	4.0
BLAW 201	Business Law I	4.0
MKTG 301 WI	Introduction to Marketing Management	4.0
OPM 300 WI	Operations Management	4.0

Writing-Intensive Course Requirements

In order to graduate, all students beginning with the entering class of 2002/01 (fall, 2002) must pass three writing-intensive courses after their freshman year. Two writing-intensive courses must be in a student's major. The third can be in any discipline. Students are advised to take one writing-intensive class each year, beginning with the sophomore year, and to avoid "clustering" these courses near the end of their matriculation. Transfer students need to meet with an academic advisor to review the number of writing-intensive courses required to graduate.

A "WI" next to a course in this catalog indicates that this course can fulfill a writing-intensive requirement. Departments will designate specific sections of such courses as writing-intensive. Sections of writing-intensive courses are not indicated in this catalog. Students should check the section comments in Banner when registering. Students scheduling their courses in Banner can also conduct a search for courses with the attribute "WI" to bring up a list of all writing-intensive courses available that term. For more information on writing-intensive courses, see the Drexel University Writing Program's [Writing-Intensive Course](#) page.



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Term 1		Credits
ENGL 101	Expository Writing and Reading	3.0
INFO 101	Introduction to Information Systems	3.0
INFO 108	Foundations of Software	4.0
UNIV 101	The Drexel Experience	1.0
MATH 101	Introduction to Math Analysis	4.0
or		
MATH 121	Calculus I	4.0
<i>Term Credits</i>		15.0
Term 2		Credits
ENGL 102	Persuasive Writing and Reading	3.0
INFO 102	Introduction to Information Systems	3.0
UNIV 101	The Drexel Experience	1.0
CS 131	Computer Programming A	3.0
or		
CS 171	Computer Programming I (for CS minor)	3.0
MATH 102	Introduction to Math Analysis	4.0
or		
MATH 122	Calculus II	4.0
<i>Term Credits</i>		14.0
Term 3		Credits
ENGL 103	Analytical Writing and Reading	3.0
INFO 105	Information Organization, Evaluation and Use	3.0
INFO 110	Human-Computer Interaction	3.0
MATH 180	Discrete Computational Structures	4.0
CS 132	Computer Programming B	3.0
or		
CS 172	Computer Programming II (for CS minor)	3.0
<i>Term Credits</i>		16.0
Term 4		Credits
INFO 200	Systems Analysis I	3.0
INFO 330	Computer Networking Technology I	4.0
PHIL 105	Critical Reasoning	3.0
SOC 250	Research Methods I	3.0
CS 133	Computer Programming C	3.0
or		
CS 260	Data Structures (for CS minor)	3.0
ANTH 101	Introduction to Cultural Diversity	3.0
or		
SOC 101	Introduction to Sociology	3.0
<i>Term Credits</i>		19.0
Term 5		Credits
INFO 210	Database Management Systems	3.0
PSY 101	General Psychology I	3.0
SOC 350	Research Methods II	3.0
	Free elective	3.0-4.0
	Information Systems (INFO) elective	3.0
<i>Term Credits</i>		15.0-16.0
Term 6		Credits

COM 230	Techniques of Speaking	3.0
ECON 201	Economics I	4.0
INFO 355	Systems Analysis II	3.0
PHIL 111	Beginning Logic	3.0
	INFO concentration course (see degree requirements)	3.0
	Term Credits	16.0
Term 7		Credits
ECON 202	Economics II	4.0
INFO 215	Social Aspects of Information	3.0
PSY 330	Cognitive Psychology	3.0
	INFO concentration course (see degree requirements)	3.0
	Information Systems (INFO) elective	3.0
	Term Credits	16.0
Term 8		Credits
COM 310	Technical Communication	3.0
STAT 201	Statistics I	4.0
	Information Systems (INFO) elective	3.0
	Science sequence course 1 (See degree requirements list)	4.0
	Term Credits	14.0
Term 9		Credits
ORGB 300	Organizational Behavior	4.0
STAT 202	Statistics II	4.0
	Information Systems (INFO) elective	3.0
	Science sequence course 2 (See degree requirements list)	4.0
	Term Credits	15.0
Term 10		Credits
INFO 420	Software Project Management	3.0
	Behavioral science elective	3.0
	Business minor course	4.0
	Free elective	3.0
	Information Systems (INFO) elective	3.0
	Term Credits	16.0
Term 11		Credits
INFO 425	Design Problem I	2.0
	Behavioral science elective	3.0
	Free elective	3.0
	Information Systems (INFO) elective	3.0
	Math/natural science course	4.0
	Term Credits	15.0
Term 12		Credits
INFO 426	Design Problem II	4.0
	Arts and Humanities elective	3.0
	Behavioral science elective	3.0
	Free elective	3.0
	Term Credits	13.0
Total Credits (minimum)		184.0-185.0



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The Bachelor of Science Degree in Information Technology (B.S.I.T.) is offered by Drexel's [College of Information Science and Technology](#) as both a five-year and a four-year co-op program. In addition to the core coursework in information systems, the major includes 15 credits towards a minor in business. Only 9 additional credits would be required to complete a minor in business.

Students graduating with a Bachelor of Science Degree in Information Technology (B.S.I.T.) will:

- Understand and be able to apply core information technologies.
- Approach the application of information technology from a user-centered perspective aimed at meeting the needs of users and organizations in a societal and global context.
- Apply sound methods and approaches to identify and analyze IT problems and design, implement, and evaluate effective and usable IT solutions.
- Display personal and interpersonal IT career skills, including the ability to work on a team, to communicate with technical and nontechnical people, and to pursue lifelong learning.

Integration with B.S.I.S.

The B.S.I.T. integrates closely with Drexel's bachelor of science in information systems ([B.S.I.S.](#)), and each enriches the other. The two degrees share a common freshman year and the same set of major courses, but they have different requirements. The difference is in the nature of specialization in upper-level courses. The B.S.I.T. is aimed at students who want a degree focused on applied information technology but with an emphasis on IT infrastructure rather than applications in business.

The structure of the freshman year allows students to embark on IT or IS without having to choose between them until later.



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Information Technology

Bachelor of Science Degree: 188.0 credits

Degree Requirements

Technology requirements		78.0 Credits
INFO 101	Introduction to Information Technology	3.0
INFO 102	Introduction to Information Systems	3.0
INFO 105	Information Evaluation, Organization, and Use	3.0
INFO 108	Foundations of Software	4.0
INFO 110	Human-Computer Interaction I	3.0
INFO 151	IS Software I: User Needs	3.0
INFO 152	IS Software II: Connections	3.0
INFO 153	IS Software II: Construction	3.0
INFO 154	IS Software II: Challenges	3.0
INFO 200	Systems Analysis I	3.0
INFO 210	Database Management Systems	3.0
INFO 215	Social Aspects of Information Systems	3.0
INFO 320	Server Technology I	4.0
INFO 330	Computer Networking Technology I	4.0
INFO 410	Information Technology Infrastructure	3.0
INFO 415	Information Technology Services	3.0
INFO 420 WI	Software Project Management	3.0
INFO 424	Team Project Practicum	3.0
INFO 425 WI	Design Problem I	3.0
INFO 426 WI	Design Problem II	3.0
	Technology electives	15.0

Advanced requirements

**9.0 - 12.0
Credits**

Students select one of the following sequences:

Database Management Systems

INFO 300	Information Retrieval Systems	3.0
INFO 365	Database Administration I	3.0
INFO 366	Database Administration II	3.0

or

Server and Network Technology

INFO 321	Server Technology II	4.0
INFO 322	Server Technology III	4.0
INFO 331	Computer Networking Technology II	4.0

Behavioral science requirements **12.0 Credits**

PSY 101	General Psychology I	3.0
PSY 330	Cognitive Psychology	3.0
	Electives	6.0

Mathematics/natural science requirements **20.0 - 21.0 Credits**

MATH 101	Introduction to Analysis I	4.0
or		
MATH 121	Calculus I	4.0
MATH 102	Introduction to Analysis II	4.0
or		
MATH 122	Calculus II	4.0
MATH 180	Discrete Computational Structures	4.0
	Natural science sequence*	8.0-9.0

* Students select one of the following course sequences:

CHEM 101 and CHEM 102
CHEM 111 and CHEM 112
ENVR 260/261 and ENVR 262/263
PHYS 103 and PHYS 104
PHEV 145 and PHEV 146
BIO 102 and BIO 104
BIO 151, CHEM 151, and PHYS 151
or PHYS 111 and PHYS 112.

Arts/humanities requirements **24.0 Credits**

ENGL 101	Expository Writing and Reading	3.0
ENGL 102	Persuasive Writing and Reading	3.0
ENGL 103	Analytical Writing and Reading	3.0
PHIL 105	Critical Reasoning	3.0
PHIL 111	Beginning Logic	3.0
COM 230	Techniques of Speaking	3.0
COM 310 WI	Technical Communication	3.0
	Arts/Humanities electives*	3.0

* Any non-required course offered by the COM, HIST, ENGL, PHIL, PSCI, ARTH, FMVD, VSST, and WRIT departments or any foreign language course.

Business requirements **12.0 Credits**

STAT 201	Statistics I	4.0
STAT 202	Statistics II	4.0

Students select one of the following:

ACCT 115	Financial Accounting Foundations	4.0
ECON 201	Economics I	4.0
ORGB 300 WI	Organizational Behavior	4.0

University and college requirements **2.0 Credits**

UNIV 101	The Drexel Experience	2.0
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Other courses **30.0 - 31.0 Credits**

Free electives	30.0-31.0
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Writing-Intensive Course Requirements

In order to graduate, all students beginning with the entering class of 2002/01 (fall, 2002) must pass three writing-intensive courses after their freshman year. Two writing-intensive courses must be in a student's major. The third can be in any discipline. Students are advised to take one writing-intensive class each year, beginning with the sophomore year, and to avoid "clustering" these courses near the end of their matriculation. Transfer students need to meet with an academic advisor to review the number of writing-intensive courses required to graduate.

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Term 1		Credits
INFO 101	Introduction to Information Systems I	3.0
INFO 108	Foundations of Software	4.0
UNIV 101	The Drexel Experience	1.0
ENGL 101	Expository Writing and Reading	3.0
MATH 101	Introduction to Math Analysis	4.0
or		
MATH 121	Calculus I	4.0
Term Credits		15.0
Term 2		Credits
ENGL 102	Persuasive Writing and Reading	3.0
INFO 102	Introduction to Information Systems II	3.0
UNIV 101	The Drexel Experience	1.0
MATH 102	Introduction to Math Analysis	4.0
or		
MATH 122	Calculus II	4.0
CS 131	Computer Programming A	3.0
or		
CS 171	Computer Programming I (for CS minor)	3.0
Term Credits		14.0
Term 3		Credits
ENGL 103	Analytical Writing and Reading	3.0
INFO 105	Information Organization, Evaluation and Use	3.0
INFO 110	Human-Computer Interaction	3.0
MATH 180	Discrete Computational Structures	4.0
CS 132	Computer Programming B	3.0
or		
CS 172	Computer Programming II (for CS minor)	3.0
Term Credits		16.0
Term 4		Credits
COM 230	Techniques of Speaking	3.0
INFO 200	Systems Analysis I	3.0
INFO 320	Server Technology I	4.0
PSY 101	General Psychology I	3.0
CS 133	Computer Programming C	3.0
or		
CS 260	Data Structures (for CS minor)	3.0
Term Credits		16.0
Term 5		Credits
INFO 210	Database Management Systems	3.0
INFO 330	Computer Networking Technology I	4.0
PHIL 105	Critical Reasoning	3.0
PSY 330	Cognitive Psychology	3.0
Free elective		3.0
Term Credits		16.0
Term 6		Credits
PHIL 111	Beginning Logic	3.0
Free elective		3.0
IT concentration course (see degree requirements)		3.0

	IT elective	3.0
	Laboratory science sequence course	4.0
	Term Credits	16.0
Term 7		Credits
INFO 215	Social Aspects of Information Systems	3.0
	Free elective	3.0
	IT concentration course (see degree requirements)	3.0
	IT elective	3.0
	Laboratory science sequence course	4.0
	Term Credits	16.0
Term 8		Credits
COM 310	Technical Communication	3.0
INFO 410	Information Technology Infrastructure	3.0
STAT 201	Statistics I	4.0
	Free elective	3.0
	IT elective	3.0
	Term Credits	16.0
Term 9		Credits
INFO 415	Information Technology Service	3.0
STAT 202	Statistics II	4.0
	Free elective	3.0
	IT concentration course (see degree requirements)	3.0
	IT elective	3.0
	Term Credits	16.0
Term 10		Credits
INFO 420	Software Project Management	3.0
ACCT 115	Financial Accounting Foundations	4.0
or		
ECON 201	Economics I	4.0
or		
ORGB 300	Organizational Behavior	4.0
	Behavioral science elective	3.0
	Free elective	4.0
	IT elective	3.0
	Term Credits	17.0
Term 11		Credits
INFO 425	Design Problems I	3.0
	Behavioral science elective	3.0
	Free electives	6.0
	IT elective	3.0
	Term Credits	15.0
Term 12		Credits
INFO 426	Design Problem II	3.0
	Arts and Humanities elective	3.0
	Behavioral science elective	3.0
	Free electives	6.0
	Term Credits	15.0
	Total Credits (minimum)	188.0



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Minor in Information Systems

The information systems minor is available to all University students in good standing, with the exception of information systems majors. A minimum of 25 credits is needed to complete the academic minor in information systems.

Required courses

	Credits
INFO 102 Introduction to Information Systems	3.0
INFO 110 Human-Computer Interaction I	3.0
INFO 200 Systems Analysis I	3.0
INFO 210 Database Management Systems	3.0
INFO 330 Computer Networking Technology I	4.0
INFO 355 Systems Analysis II	3.0

An additional 6 credits or more are to be chosen from other course offerings in information systems pertinent to the student's overall program of study. Guidance in selecting these electives will be provided by staff and faculty of the College of Information Science and Technology.

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Prospective Students

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Minor in Software Engineering

The software engineering minor is available to all University students in good standing, with the exception of software engineering majors. A total of 24 credits is needed to complete the academic minor in software engineering.

Requirements	Credits
SE 210 Software Specification and Design I	3.0
SE 211 Software Specification and Design II	3.0
SE 310 Software Architecture I	3.0
SE 311 Software Architecture II	3.0
SE 320 Software Verification and Validation	3.0
SE 410 Software Evolution	3.0
Two Software Engineering electives	6.0

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