School of Computer Science

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Undergraduate Office: GHC 4115
https://www.cs.cmu.edu/undergraduate-programs

Carnegie Mellon founded one of the first Computer Science departments in the world in 1965. As research and teaching in computing grew at a tremendous pace at Carnegie Mellon, the university formed the School of Computer Science at the end of 1988. Carnegie Mellon was one of the first universities to elevate Computer Science into its own academic college at the same level as the Mellon College of Science and the College of Engineering. Today, the School of Computer Science consists of seven departments and institutes, including the Computer Science Department that started it all, along with the Human-Computer Interaction Institute, the Institute for Software Research, the Computational Biology Department, the Language Technologies Institute, the Machine Learning Department, and the Robotics Institute. Together, these units make the School of Computer Science a world leader in research and education. Recently, the School of Computer Science launched two new undergraduate majors: Computational Biology and Artificial Intelligence. These new majors, along with the highly-ranked Computer Science major, give students in the School of Computer Science distinct paths in the field of computing with ample opportunities in industry and advanced research.

The School of Computer Science offers the following majors and minors:

- B.S. in Artificial Intelligence
- B.S. in Computational Biology
- B.S. in Computer Science
- Bachelor's in Computer Science and Art (joint with the College of Fine Arts)
- Additional major in Computational Biology
- Additional major in Computer Science
- Additional major in Human-Computer Interaction
- Additional major in Robotics
- Minor in Computer Science
- Minor in Computational Biology
- Minor in Human-Computer Interaction
- Minor in Language Technologies
- Minor in Machine Learning
- Minor in Neural Computation
- Minor in Robotics
- Minor in Software Engineering

Information for these majors and minors can be found through the navigation menu or through the links below:

- Artificial Intelligence (http://coursecatalog.web.cmu.edu/schoolofcomputerscience/artificialintelligence) (B.S. degree)
- Computational Biology (http://coursecatalog.web.cmu.edu/schoolofcomputerscience/undergraduatecomputationabiology) (B.S. degree, additional major, minor)
- Computer Science (http://coursecatalog.web.cmu.edu/schoolofcomputerscience/undergraduatecomputerscience) (B.S. degree, additional major, minor)
- SCS additional majors and minors (http://coursecatalog.web.cmu.edu/schoolofcomputerscience/additionalmajorsandminors)

Students who apply to, and are directly admitted into, the School of Computer Science can choose between three primary majors: Artificial Intelligence, Computational Biology or Computer Science. Students admitted into the School of Computer Science and the College of Fine Arts are also given the option to pursue a joint major in Computer Science and Art. Suitably prepared students from other Carnegie Mellon colleges are eligible to apply for internal transfer to the School of Computer Science (for Computational Biology or Computer Science) and will be considered for transfer if grades in specific requirements are sufficiently high and space is available. Computation-oriented programs are also available within the Mellon College of Science, the Dietrich College of Humanities and Social Sciences, the College of Engineering and the College of Fine Arts.

SCS Policies & Procedures

School of Computer Science (SCS) Academic Standards and Actions

Grading Practices

Grades given to record academic performance in SCS are detailed under Grading Practices at Undergraduate Academic Regulations (http://coursecatalog.web.cmu.edu/servicesandoptions/undergraduateacademicregulations).

Dean’s List

SCS recognizes each semester those undergraduates who have earned outstanding academic records by naming them to the Dean’s List. The criterion for such recognition is a quality point average of at least 3.75 while completing a minimum of 36 factorable units and earning no incomplete grades.

Academic Actions

In the first year, quality point averages below 1.75 in either semester invoke an academic action. For all subsequent semesters an academic action will be taken if the semester quality point average or the cumulative quality point average (excluding the first year) is below 2.00.

**Probation:** The action of probation will be taken in the following cases based on QPA:

1. One semester of the first year is below 1.75 QPA;
2. The semester QPA of a student in good standing beyond the first year falls below 2.00.

The term of probation is one semester as a full-time student. First year students are no longer on probation at the end of the second semester if the second semester’s QPA is 1.75 or above. Students in the third or subsequent semester of study are no longer on probation at the end of one semester if the semester QPA and cumulative QPA (excluding the first year) are 2.00 or above.

**Probation Continued:** A student who has had one semester on probation and is not yet meeting minimum requirements but whose record indicates that the standards are likely to be met at the end of the next semester of study is occasionally continued on probation. This action is normally taken only when a student’s semester QPA is above 2.0 but their cumulative QPA is not yet above 2.0.

**Suspension:** A student who does not meet minimum standards based on QPA at the end of one semester of probation will be suspended:

- A first year student will be suspended if the QPA from each semester is below 1.75.
- A student on probation in the third or subsequent semester of study will be suspended if the semester QPA is below 2.00.

The minimum period of suspension is one academic year (two non-summer semesters). At the end of that period a student may return to school (on probation) by:

1. completing a Return from Leave form from the HUB,
2. submitting an additional written statement to the SCS Assistant Dean for Undergraduate Education, minimum one page, that outlines what the student did while on leave to address the issues that led to the suspension and that would indicate future success on return, and
3. written approval from the student’s academic advisor and the Assistant Dean for Undergraduate Education, in consultation with the Office of Student Affairs and the Office of International Education as appropriate.

Students who have been suspended or have withdrawn are required to absent themselves from the campus (including residence halls and Greek houses) within a maximum of two days after the action and to remain off the campus for the duration of the time specified. This action includes debarment from part-time or summer courses at the university for the duration of the period of the action. Although suspended students may not hold student jobs, students on academic suspension may, under certain circumstances, have a non-student job with the university. Students on disciplinary or administrative suspension may not.
Drop: This is a permanent severance. Students who have been suspended and who fail to meet minimum standards in the semester that they return to school will be dropped.

Students who have been dropped are required to absent themselves from the campus (including residence halls and Greek houses) within a maximum of two days after the action.

Other Actions: In addition to academic actions based on QPA, the Associate Dean for Undergraduate Education may place students on probation, or suspend them. If, in their judgment, such actions will not prove successful, students who remain on probation or suspended for at least 3 attempts, or completing the required 100-level core courses by the end of the sophomore year, etc.). Students are encouraged to consult with their academic advisor about any concerns with regard to lack of progress in their chosen SCS major.

The relation indicated above between probation, suspension and drop is nominal. In unusual circumstances, SCS College Council may suspend or drop a student without prior probation.

Return from Leave of Absence

SCS undergraduate students returning from a leave of absence are required to submit a Return from Leave of Absence form to the CS Undergraduate Office for approval by the student’s academic advisor and the SCS Assistant Dean for Undergraduate Education. In addition, the student must also supply a letter that explains the reason for the leave, the actions that were performed during the leave to prepare the student for a successful return, and a description of the on-campus resources, if required, that would be used by the student in order to increase the likelihood of success. Students returning from a leave of absence are also encouraged to provide two letters of support from people close to the student (e.g., family, friends, clergy, teachers, coaches, others as appropriate). Requests to return are reviewed by the student’s academic advisor, the Assistant Dean, and the Student Affairs Council in order to determine eligibility and any resources that need to be put into place to assist the student upon return. Contact the CS Undergraduate Office for more information.

Internal Transfer within SCS

First year students admitted to SCS are considered undeclared during their first year. These students declare their SCS major in the second semester of their freshman year. SCS students who wish to transfer from one SCS major to another SCS major may do so by applying for transfer by mid-semester break in the semester the transfer is desired. These students should consult with their academic advisor and the program director of the intended major for more information about specific course requirements and academic plans. Internal SCS transfers do not have any grade requirements. Transfers are approved based on demonstrated interest, ability, and availability in the intended major.

Transfer into SCS / Dual-degree with SCS from non-SCS programs within CMU

Undergraduate students admitted to colleges at CMU other than SCS and wishing to transfer to Computer Science or pursue a dual degree in Computer Science should consult with the SCS Assistant Dean for Undergraduate Education during their first year. See the individual program pages for Computer Science (http://coursecatalog.web.cmu.edu/schoolofcomputerscience/) and Computational Biology (http://coursecatalog.web.cmu.edu/schoolofcomputerscience/undergraduatecomputationalbiology) for locations.

- For the Computer Science major, students must complete 21-127 (or equivalent), 15-122, 15-120, 15-210, 15-251, 15-351 (or 15-210), 03-121 and 02-250 with an overall QPA over these six courses of 3.6 or higher and an overall QPA of at least 3.0 in order to apply for transfer or dual degree.
- For the Computational Biology major, students must complete 21-127 (or equivalent), 15-122, 15-210, 15-251, 15-351 (or 15-210), 03-121 and 02-250 with an overall QPA over these six courses of 3.6 or higher and an overall QPA of at least 3.0 in order to apply for transfer or dual degree.

Students may apply for transfer by the mid-semester break in the semester when the last of the six required courses will be completed. In the case of courses in progress, the mid-semester grades will be used in the QPA calculation. The decision to allow transfer or dual degree will be made by the SCS program page for specific science and engineering requirements.

Students who are admitted for Computer Science or Computational Biology may not subsequently transfer into the Artificial Intelligence program due to high demand within CMU.

Graduation Requirements

1. A requirement for graduation is the completion of the program specified for a degree with a cumulative quality point average of 2.0 or higher for all courses taken during the first year.
2. Students must be recommended for a degree by the faculty of SCS.
3. A candidate for the bachelor's degree must complete at the University a minimum of four semesters of full-time study, or the equivalent of part-time study, comprising at least 180 units of course work.
4. Students will be required to have met all financial obligations to the university before being awarded a degree.

A student who does not meet the QPA requirement above must petition SCS College Council for a waiver of the first requirement.

General Education Requirements

All undergraduate degrees in the School of Computer Science include depth in their particular field of study but also breadth through the general education requirements. General education requirements are part of SCS degrees to give students an opportunity to learn more about the world from scientific and humanistic points of view. These additional skills are useful for graduates since computing is often embedded in domains that are not entirely within the bounds of computing. SCS students will need to use their computing skills to solve problems alongside scientists and engineers, artists, social and cognitive scientists, historians, linguists, economists and business experts, and SCS students will need to communicate effectively and understand the ethical implications of their work. The general education requirements help SCS students gain this broad perspective so they can work well in a wide variety of domains.

Science and Engineering

All candidates for a B.S. degree in the School of Computer Science must complete a minimum of 36 units offered by the Mellon College of Science and/or the College of Engineering (CIT).

Computational Biology majors

For Computational Biology majors, consult the Computational Biology (http://coursecatalog.web.cmu.edu/schoolofcomputerscience/undergraduatecomputationalbiology) program page for specific science and engineering requirements.

Artificial Intelligence and Computer Science majors

For Artificial Intelligence and Computer Science majors, four courses in science and engineering are required, 9 units or more for each course, at least one course must have a laboratory component and at least two courses must be from the same department.

Non-lab courses that can be taken by AI and CS majors to satisfy this requirement are given in the list below. (Consult your academic advisor for additional choices available each semester.)
02-223  Personalized Medicine: Understanding Your Own Genome (can be paired with a course in Biology 03-xxx for two courses in one department)
03-121  Modern Biology 9
03-125  Evolution 9
03-132  Basic Science to Modern Medicine 9
03-133  Neurobiology of Disease 9
06-100  Introduction to Chemical Engineering 12
06-221  Thermodynamics 9
09-105  Introduction to Modern Chemistry I 10
09-106  Modern Chemistry II 10
09-217  Organic Chemistry I 9
09-218  Organic Chemistry II 9
09-225  Climate Change: Chemistry, Physics and Planetary Science 9
12-100  Introduction to Civil and Environmental Engineering 12
12-201  Geology 9
18-100  Introduction to Electrical and Computer Engineering 12
18-220  Electronic Devices and Analog Circuits 12
18-240  Structure and Design of Digital Systems 12
24-101  Fundamentals of Mechanical Engineering 12
24-231  Fluid Mechanics 10
24-261  Statics 10
24-351  Dynamics 10
33-114  Physics of Musical Sound 9
33-120  Science and Science Fiction 9
33-121  Physics I for Science Students 12
or 33-151 Matter and Interactions I
33-142  Physics II for Engineering and Physics Students 12
or 33-152 Matter and Interactions II
33-224  Stars, Galaxies and the Universe 9
42-101  Introduction to Biomedical Engineering 12
42-201  Introduction to Bioengineering 12
42-341  Introduction to Biomechanics 9
85-219  Biological Foundations of Behavior (can be paired with a course in Biology 03-xxx for two courses in one department) 9

At present, courses meeting the lab requirement are:

02-261  Quantitative Cell and Molecular Biology Laboratory (can be paired with a course in Biology 03-xxx for two courses in one department) 9
03-124  Modern Biology Laboratory 9
09-101  Introduction to Experimental Chemistry (This 3 unit lab together with 09-105 satisfies the lab requirement.) 3
09-221  Laboratory I: Introduction to Chemical Analysis 12
27-100  Engineering the Materials of the Future 12
33-104  Experimental Physics 9
42-203  Biomedical Engineering Laboratory 9
85-310  Research Methods in Cognitive Psychology 9
85-314  Cognitive Neuroscience Research Methods 9

The following MCS and CIT courses cannot be used to satisfy the Science and Engineering requirement:

03-511  Computational Molecular Biology and Genomics 9
03-512  Computational Methods for Biological Modeling and Simulation 9
06-262  Mathematical Methods of Chemical Engineering 12
09-103  Atoms, Molecules and Chemical Change 9
09-231  Mathematical Methods for Chemists 9
12-271  Introduction to Computer Application in Civil & Environmental Engineering 9
18-090  Twisted Signals: Multimedia Processing for the Arts 10
18-200  ECE Sophomore Seminar 1
18-202  Mathematical Foundations of Electrical Engineering 12
18-213  Introduction to Computer Systems 12
18-345  Introduction to Telecommunication Networks 12
18-411  Computational Techniques in Engineering 12
18-482  Telecommunications Technology and Policy for the Internet Age 12
18-487  Introduction to Computer Security 12
18-540  Rapid Prototyping of Computer Systems 12
19-101  Introduction to Engineering and Public Policy 12
19-211  Ethics and Policy Issues in Computing 9
19-325  Technology and Policy Writing for Lay Audiences 9
19-402  Telecommunications Technology and Policy for the Internet Age 12
19-411  Global Competitiveness: Firms, Nations and Technological Change 9
19-432  Special Topics: Bitcoin and Cryptocurrencies 6
27-410  Computational Techniques in Engineering 12
33-100  Basic Experimental Physics 6
33-115  Physics for Future Presidents 9
33-124  Introduction to Astronomy 9
33-232  Mathematical Methods of Physics 10
39-100  Special Topics: WHAT IS ENGINEERING? 9
39-200  Business for Engineers 9
42-201  Professional Issues in Biomedical Engineering 3

All Electrical and Computer Engineering graduate courses (18-6xx, 18-7xx, 18-8xx, 18-9xx) cannot be used for this requirement. In general, any MCS or CIT courses that are cross-listed with SCS courses or have significant mathematical or computational content cannot be used for this requirement. Consult with a CS undergraduate advisor about any course to be used for the Science and Engineering requirement before registration.

Humans and Arts

All candidates for a B.S. degree in the School of Computer Science must complete a minimum of 63 units offered by the College of Humanities & Social Sciences and/or the College of Fine Arts as prescribed below. Students pursuing a Bachelor’s in Computer Science and Art (http://coursescatalog.web.cm.edu/servicesandoptions/intercollegeprograms/bxintercollege#bcscurriculumtext) should consult the general education requirements for that program.

A. Freshman Writing Requirement (9 units)

Complete one of the following writing courses for 9 units:

76-101  Interpretation and Argument 9
76-102  Advanced First Year Writing: Special Topics (by invitation only) 9
or two of these three writing minis for 9 units total:
76-106  Writing about Literature, Art and Culture 4.5
76-107  Writing about Data 4.5
76-108  Writing about Public Problems 4.5

B. Breadth Requirement (minimum 27 units: 9 units each)

Complete three courses, one each from Category 1, Category 2, and Category 3. Students may use two minis totaling 9 units or more to satisfy one of the categories, with permission of the Assistant Dean for Undergraduate Education, if the minis meet the goals of the desired category.

(NOTE: Artificial Intelligence majors replace Category 1 with Category 1A: Cognitive Studies)

Category 1 (for Computational Biology and Computer Science majors): Cognition, Choice and Behavior - this requirement explores the process of thinking, decision making, and behavior in the context of the individual.

70-311  Organizational Behavior 9
80-130  Introduction to Ethics 9
80-150  Nature of Reason 9
80-180  Nature of Language 9
80-221  Philosophy of Social Science 9
80-241  Ethical Judgments in Professional Life 9
80-242  Conflict and Dispute Resolution 9
80-270  Philosophy of Mind 9
80-271  Philosophy and Psychology 9
80-275  Metaphysics 9
80-281  Language and Thought 9
79-202 Flesh and Spirit: Early Modern Europe, 1400-1750 9
79-207 Development of European Culture 9
79-222 Between Revolutions: The Development of Modern Latin America 9
79-223 Mexico: From the Aztec Empire to the Drug War 9
79-226 African History: Earliest Times to 1780 9
79-229 Origins of the Arab-Israeli Conflict, 1880-1948 9
79-230 Arab-Israeli Conflict Since 1948 9
79-240 Development of American Culture 9
79-241 African American History: Africa to the Civil War 9
79-242 African American History: Reconstruction to the Present 9
79-261 The Last Emperors: Chinese History and Society, 1600-1900 9
79-262 Modern China: From the Birth of Mao ... to Now 9
79-265 Russian History: From the First to the Last Tsar 9
79-282 Europe and the World Since 1800 9
79-316 Photography, the First 100 Years, 1839-1939 9
79-333 Sex, Gender & Anthropology 9
79-345 Roots of Rock & Roll 9
79-350 Early Christianity 9
79-385 The Arts in Pittsburgh 9
79-396 Music and Society in 19th and 20th Century Europe and the U.S. 9
80-100 Introduction to Philosophy 9
80-250 Ancient Philosophy 9
80-251 Modern Philosophy 9
80-253 Continental Philosophy 9
80-254 Analytic Philosophy 9
80-255 Pragmatism 9
80-261 Empiricism and Rationalism 9
80-276 Philosophy of Religion 9
82-273 Introduction to Japanese Language and Culture 9
82-283 Introduction to Russian Culture 9
82-303 Introduction to French Culture 9
82-304 The Francophone World 9
82-327 The Emergence of the German Speaking World 9
82-333 Introduction to Chinese Language and Culture 9
82-342 Spain: Language and Culture 9
82-343 Latin America: Language and Culture 9
82-344 U.S. Latinos: Language and Culture 9
82-345 Introduction to Hispanic Literary & Cultural Studies 9

C. Humanities and Arts Electives (minimum 27 units)
Complete 3 non-technical courses of at least 9 units each from any of the departments in the College of Humanities & Social Sciences or the College of Fine Arts. Some of the courses taught in these units are considered technical courses and may not be used to satisfy this requirement (see Deletions below). Additionally, a select set of courses from Business Administration and from Environmental and Public Policy can also count for this requirement (see Additions below). Students may combine humanities/art courses with lower units together to form a single course of 9 units or more. Students are encouraged, but not required, to take courses from different departments to gain additional breadth and to create new opportunities for engagement with the university community.

The most up-to-date list of additions and deletions can be found at http://www.csd.cs.cmu.edu/content/bscs-humanities-and-arts-requirements and supersedes the lists given below. Consult with a CS undergraduate advisor for additional information.

Deletions
The following courses may not count toward the unconstrained electives in Humanities and Arts in SCS due to the technical (computing and/or mathematical) nature of the courses:
36-200 Reasoning with Data 9
36-202 Statistics & Data Science Methods 9
36-207 Probability and Statistics for Business Applications 9
36-208 Regression Analysis 9
36-217 Probability Theory and Random Processes 9
36-220 Engineering Statistics and Quality Control 9
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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<td>36-225</td>
<td>Introduction to Probability Theory</td>
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<td>36-226</td>
<td>Introduction to Statistical Inference</td>
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<td>36-247</td>
<td>Statistics for Lab Sciences</td>
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<td>36-303</td>
<td>Sampling, Survey and Society</td>
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<td>36-304</td>
<td>Biostatistics</td>
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<td>36-309</td>
<td>Experimental Design for Behavioral &amp; Social Sciences</td>
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<td>36-314</td>
<td>Biostatistics</td>
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<td>36-315</td>
<td>Statistical Graphics and Visualization</td>
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<td>36-326</td>
<td>Mathematical Statistics (Honors)</td>
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<td>36-401</td>
<td>Modern Regression</td>
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<td>36-402</td>
<td>Advanced Methods for Data Analysis</td>
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<td>36-410</td>
<td>Introduction to Probability Modeling</td>
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<td>36-428</td>
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<td>36-459</td>
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<td>36-461</td>
<td>Special Topics: Statistical Methods in Epidemiology</td>
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<td>36-462</td>
<td>Special Topics: Data Mining</td>
<td>9</td>
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<td>36-463</td>
<td>Special Topics: Multilevel and Hierarchical Models</td>
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<td>36-464</td>
<td>Special Topics: Applied Multivariate Methods</td>
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<td>36-468</td>
<td>Special Topics</td>
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<td>36-490</td>
<td>Undergraduate Research</td>
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<td>Topic Detection and Document Clustering</td>
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<td>Astrostatistics</td>
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<td>51-257</td>
<td>Introduction to Computing for Creative Practices</td>
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<td>Design Center: Introduction to Web Design</td>
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<td>Introduction to Business Systems Programming</td>
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<td>Mobile Web Design &amp; Development</td>
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<td>The Information Systems Milieux</td>
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<td>Information Design Fundamentals</td>
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<td>Application Design and Development</td>
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<td>Introduction to Geographical Information Systems</td>
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<td>67-306</td>
<td>Special Topics: Management of Computer and Information Systems</td>
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<td>Innovation Studio: Health Care Information Systems</td>
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<td>67-309</td>
<td>Special Topics: Information Assurance and Security</td>
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<td>67-324</td>
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<td>Web Application Security</td>
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<td>67-328</td>
<td>Mobile to Cloud: Building Distributed Applications</td>
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<td>67-329</td>
<td>Contemporary Themes in Global Systems</td>
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<td>Technology Consulting in the Global Community</td>
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<td>Practical Data Science</td>
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<td>76-388</td>
<td>Topics in Digital Humanities: Coding for Humans</td>
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<td>76-481</td>
<td>Introduction to Multimedia Design</td>
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<td>76-487</td>
<td>Web Design</td>
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<td>80-110</td>
<td>Nature of Mathematical Reasoning</td>
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<td>80-210</td>
<td>Logic and Proofs</td>
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<td>80-211</td>
<td>Logic and Mathematical Inquiry</td>
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<td>80-222</td>
<td>Measurement and Methodology</td>
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<td>80-223</td>
<td>Causality and Probability</td>
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<td>80-310</td>
<td>Formal Logic</td>
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<td>80-311</td>
<td>Undecidability and Incompleteness</td>
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<tr>
<td>80-314</td>
<td>Logic and Artificial Intelligence</td>
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<td>80-315</td>
<td>Modal Logic</td>
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<td>80-405</td>
<td>Game Theory</td>
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<td>80-411</td>
<td>Proof Theory</td>
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<td>80-413</td>
<td>Category Theory</td>
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<td>80-521</td>
<td>Seminar on Formal Epistemology</td>
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<td>85-213</td>
<td>Human Information Processing and Artificial Intelligence</td>
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<tr>
<td>85-219</td>
<td>Biological Foundations of Behavior</td>
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<tr>
<td>85-370</td>
<td>Perception</td>
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<tr>
<td>85-414</td>
<td>Cognitive Neuropsychology</td>
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<td>88-251</td>
<td>Empirical Research Methods</td>
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<tr>
<td>88-316</td>
<td>Game Theory</td>
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**Additions**

The following courses outside of Dietrich College and the College of Fine Arts may count toward the Humanities and Arts requirement in SCS:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>17-333</td>
<td>Privacy Policy, Law, and Technology (formerly 08-533)</td>
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<tr>
<td>17-562</td>
<td>Law of Computer Technology (formerly 08-532)</td>
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<tr>
<td>19-101</td>
<td>Introduction to Engineering and Public Policy</td>
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<td>19-402</td>
<td>Telecommunications Technology and Policy for the Internet Age</td>
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<td>19-403</td>
<td>Policies of Wireless Systems</td>
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<td>19-411</td>
<td>Global Competitiveness: Firms, Nations and Technological Change</td>
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<tr>
<td>32-102</td>
<td>Seapower and Maritime Affairs</td>
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<td>32-201</td>
<td>Leadership &amp; Management</td>
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<td>32-402</td>
<td>Leadership and Ethics</td>
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<tr>
<td>70-160</td>
<td>Graphic Media Management</td>
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<td>70-311</td>
<td>Organizational Behavior</td>
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<td>70-321</td>
<td>Negotiation and Conflict Resolution</td>
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<tr>
<td>70-332</td>
<td>Business, Society and Ethics</td>
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<td>70-340</td>
<td>Business Communications</td>
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<td>Team Dynamics and Leadership</td>
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<td>70-342</td>
<td>Managing Across Cultures</td>
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<td>70-345</td>
<td>Business Presentations</td>
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<td>Acting for Business</td>
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<td>70-364</td>
<td>Business Law</td>
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<td>70-365</td>
<td>International Trade and International Law</td>
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<td>70-381</td>
<td>Marketing I</td>
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<tr>
<td>70-430</td>
<td>International Management</td>
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<tr>
<td>99-238</td>
<td>Materials, Energy and Environment</td>
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</tbody>
</table>

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