

: COMPUTER SCIENCE + SPEECH AND HEARING SCIENCE, BS

In Workflow

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Approval Path

1. Mon, 03 Nov 2025 19:42:54 GMT
Emily Stuby (eastuby): Approved for U Program Review
2. Mon, 24 Nov 2025 21:19:37 GMT
Melissa Steinkoenig (menewell): Approved for Gen Ed Review
3. Thu, 15 Jan 2026 16:15:15 GMT
Raksha Mudar (raksha): Approved for 1679-SPSHS Committee Chair
4. Thu, 15 Jan 2026 17:09:46 GMT
Amy Woods (amywoods): Approved for 1679-SPSHS Head
5. Tue, 03 Feb 2026 17:10:08 GMT
Elsa Gunter (egunter): Rollback to Initiator
6. Wed, 18 Feb 2026 19:56:58 GMT
Emily Stuby (eastuby): Approved for U Program Review
7. Thu, 19 Feb 2026 22:24:40 GMT
Melissa Steinkoenig (menewell): Approved for Gen Ed Review
8. Thu, 19 Feb 2026 23:37:11 GMT
Raksha Mudar (raksha): Approved for 1679-SPSHS Committee Chair
9. Fri, 20 Feb 2026 18:05:00 GMT
Georgia Malandraki (georgiam): Approved for 1679-SPSHS Head
10. Fri, 20 Feb 2026 22:55:59 GMT
Steve Herzog (smherzog): Rollback to 1679-SPSHS Head for 1434-SSCDS Committee Chair

11. Mon, 23 Feb 2026 18:00:26 GMT
Georgia Malandraki (georgiam): Rollback to 1679-SPSHS Committee Chair for 1679-SPSHS Head
12. Mon, 23 Feb 2026 21:30:37 GMT
Raksha Mudar (raksha): Approved for 1679-SPSHS Committee Chair
13. Mon, 23 Feb 2026 21:51:45 GMT
Georgia Malandraki (georgiam): Approved for 1679-SPSHS Head
14. Mon, 23 Feb 2026 22:42:49 GMT
Steve Herzog (smherzog): Approved for 1434-SSCDS Committee Chair
15. Thu, 05 Mar 2026 06:13:06 GMT
Elsa Gunter (egunter): Approved for 1434-SSCDS Head
16. Tue, 14 Apr 2026 18:29:16 GMT
Katherine Freeman (katefree): Approved for KP Committee Chair
17. Tue, 14 Apr 2026 18:29:42 GMT
Brittany Brunson (bhitchi2): Approved for KP Dean
18. Fri, 24 Apr 2026 19:14:03 GMT
Robbin King (rlking10): Approved for KY Committee Chair
19. Fri, 24 Apr 2026 19:15:59 GMT
Robbin King (rlking10): Approved for KY Dean
20. Tue, 28 Apr 2026 14:52:14 GMT
Tom Teper (tteper): Approved for University Librarian
21. Tue, 28 Apr 2026 15:11:15 GMT
Suzanne Lee (suzannel): Approved for COTE Programs
22. Mon, 17 Aug 2026 14:28:24 GMT
Brooke Newell (bsnewell): Approved for Provost

New Proposal

Date Submitted: Fri, 13 Feb 2026 22:08:34 GMT

Viewing: : Computer Science + Speech and Hearing Science, BS

Last edit: Wed, 26 Aug 2026 15:17:20 GMT

Changes proposed by: Pasquale Bottalico

Proposal Type

Proposal Type:

Major (ex. Special Education)

Administration Details

Official Program Name

Computer Science + Speech and Hearing Science, BS

Sponsor College

Applied Health Sciences

Sponsor Department

Speech & Hearing Science

Sponsor Name

Pasquale Bottalico; Georgia A. Malandraki; Raksha Mudar

Sponsor Email

pb81@illinois.edu; georgiam@illinois.edu; raksha@illinois.edu

College Contact

Steven Petruzzello

College Contact Email

petruzze@illinois.edu

College Budget Officer

Elizabeth A. Clawson

College Budget Officer Email

clawson@illinois.edu

If additional stakeholders other than the Sponsor and College Contacts listed above should be contacted if questions during the review process arise, please list them here.

Does this program have inter-departmental administration?

Yes

Interdisciplinary Colleges and Departments (list other colleges/departments which are involved other than the sponsor chosen above)

Please describe the oversight/governance for this program, e.g., traditional departmental/college governance, roles of elected faculty committees and of any advisory committees.

Siebel School of Computing & Data Science: This program will adopt the governance structure of existing CS+X programs where both units have input on course requirements, advising, etc.

College

Grainger College of Engineering

Department

Siebel School Comp & Data Sci

Is there an additional department involved in governance?

No

Catalog Term**Desired Effective Catalog Term**

Fall 2026

Effective Catalog

2026-2027

Proposal Title

Proposal Title (either Establish/Revise/Eliminate the Degree Name in Program Name in the College of XXXX, i.e., Establish the Bachelor of Science in Entomology in the College of Liberal Arts and Sciences, include the Graduate College for Grad Programs)

Establish the Bachelor of Science in Computer Science plus Speech and Hearing Science in the College of Applied Health Sciences

Are there other related proposals that should be considered simultaneously with this one? If yes, please list the program keys and/or titles. Consider Majors, Minors, Concentrations & Joint Programs in your department. Please know that this information is used

administratively to move related proposals through workflow efficiently and together as needed. Format your response like the following "This BS proposal (key 567) is related to the Concentration A proposal (key 145)"

No

Program Justification

Provide a brief justification of the program, including highlights of the program objectives, and the careers, occupations, or further educational opportunities for which the program will prepare graduates, when appropriate.

Program Overview: Computer Science + Speech and Hearing Science (CS+SHS)

The CS+SHS major is a flexible, interdisciplinary undergraduate program designed to equip students with computational skills applicable to advancing communication, cognition, swallowing, language, and hearing technologies. Students will learn to develop solutions that support individuals with communication and aerodigestive disorders and enhance devices such as hearing aids, cochlear implants, wearable monitoring devices, augmentative and alternative communication devices.

Program Rationale

Two guiding principles support the creation of CS+SHS:

1. Growing Demand: There is an increasing need for professionals who understand both computing and the complexities of human communication, cognition, swallowing, language, and hearing functions. The program enables students to extend current knowledge in these fields using advanced computational methods and assistive technologies.
2. Importance of Computational Thinking: Skills learned through computer science—such as problem-solving, data analysis, and algorithm design—are critical for addressing communication, language, cognition, swallowing and hearing challenges. Careers in both healthcare and technology continue to expand, and professionals trained in both domains will help reduce inequalities by increasing access to innovative assistive solutions.

Key Competencies

Students will acquire skills essential for building next-generation communication, cognition, swallowing, language, and hearing solutions, for example:

- Designing algorithms for speech recognition and natural language processing;
- Creating software and hardware for hearing aids and cochlear implants;
- Analyzing auditory and language data to improve diagnostics and enable personalized care;
- Leveraging artificial intelligence to advance speech, language, swallowing and hearing technologies;
- Developing accessible technologies for diverse populations;
- Simulating complex auditory and linguistic environments for training and research.

Program Objectives

1. Interdisciplinary Expertise: Develop a solid interdisciplinary foundation in the theories and principles of computer science and speech, language, cognition, swallowing, and hearing sciences.
2. Innovation in Assistive Technologies: Foster the development of new algorithms, software, and hardware for speech recognition, hearing aids, and other assistive devices for communication and aerodigestive needs.
3. Research and Development: Prepare students to engage in advanced study and research in areas such as computational speech, language, auditory neuroscience, and health informatics.
4. Equity and Access: Promote the development of technologies that ensure equitable access to speech, language, cognition, swallowing, and hearing services for diverse populations, including individuals with disabilities.

Career Opportunities

Graduates of the CS+SHS program will be prepared for a wide range of career paths and graduate programs, including:

- Natural Language Processing (NLP) Specialist: Designing speech recognition and understanding systems in tech companies.

- Speech-Language Pathology Technology Developer: Creating diagnostic and therapeutic tools for communication, cognition, and aerodigestive disorders.
- Hearing Technology Developer: Innovating hearing aids and cochlear implants within the healthcare and tech sectors.
- Audiology Technology Specialist: Developing informatics tools to support hearing health.
- Research and Academia: Pursuing graduate degrees and research careers in speech, language, cognition, swallowing, hearing, and health informatics.
- Non-Profits and Advocacy: Supporting access to speech, language, cognition, swallowing, and hearing services and promoting assistive technology adoption.

Program Structure

The CS+SHS degree follows the model of existing CS+X programs. Students complete general education requirements, a standard sequence of core computer science courses, and a set of complementary courses in speech and hearing science. The program is housed within the Department of Speech and Hearing Science in the College of Applied Health Sciences.

Suggested Elective Areas of Focus

1. Speech and Language

- Courses in language development, speech neuroscience, anatomy, and communication disorders.
- Research opportunities focused on enhancing communication technologies for individuals with speech, cognitive, swallowing, and language deficits.

2. Hearing

- Courses in auditory neuroscience, clinical audiology, hearing technologies, and cochlear implants.
- Projects aimed at making advanced hearing technologies more accessible, including those responding to new over-the-counter hearing aid policies.

While many other CS + X program have students choose between the pair of CS 233 & CS 341 or the combination of CS 340 & two CS 400-level courses, this proposal specifies the 'two CS 400-level courses' intentionally as CS 441 and either CS 447 or CS 448. Because the program emphasizes speech recognition, natural language processing, and audio-related machine learning, an unrestricted elective structure may not ensure sufficient exposure to these areas. The selected courses ensure that students engage with computational methods directly relevant to speech and hearing science while keeping the program aligned with the credit-hour expectations of the CS+X framework.

Contributions to the University and Beyond

The CS+SHS degree will elevate the University of Illinois' position as a leader in interdisciplinary education. As one of the first undergraduate programs to combine computer science with speech and hearing science, it offers a model for integrating technical and health sciences education.

- Department of Speech and Hearing Science: The program enhances the department's mission by integrating emerging technologies into traditional speech and hearing science training.
- Siebel School of Computing & Data Science: The program supports the department's goal of applying computational methods to address real-world societal challenges, particularly in healthcare and accessibility.

The CS+SHS program prepares students for the future of interdisciplinary innovation. Graduates will be uniquely equipped to drive advancements at the intersection of communication, language, cognition, swallowing, hearing, and technology, paving the way for more inclusive and effective solutions in both research and practice.

Instructional Resources

Will there be any reduction in other course offerings, programs or concentrations by your department as a result of this new program/proposed change?

No

Does this new program/proposed change result in the replacement of another program?

No

Does the program include other courses/subjects outside of the sponsoring department impacted by the creation/revision of this program?

Yes

Please email the Department Head or a CIM User in the Department Head role of the units that own the courses that are impacted by the creation/revision/phase down or elimination of this program. For example, if you are adding a course, you will need support from the course owning unit to do so. Likewise, if you are removing a course or adding additional courses where enrollment in existing courses in the program of study could be impacted, you will need acknowledgement from the course owning unit. If the program has potential for perceived overlap with another unit on campus, you should have consultation with the other unit/stakeholders. Once this is complete, acknowledge that you have done so below.

Acknowledged

Indicate which departments/units/stakeholders were notified/consulted by listing the name of the department(s). For example, if you are adding a course owned by the Department of Philosophy and a course owned by the Department of Theatre and notified the units accordingly, you would include in the box below: 1. Department of Philosophy; 2. Department of Theatre.

1. Department of Anthropology;
2. Department of Physics;
3. Department of Linguistics;
4. School of Integrative Biology;
5. Department of Health and Kinesiology;
6. Department of Chemistry;
7. School of Molecular and Cellular Biology;
8. Department of Mathematics;
9. Siebel School of Computing and Data Science

Please attach any letters of support/acknowledgement for any Instructional Resources. Consider faculty, students, and/or other impacted units as appropriate.

LOS CS-SHS ANTH.pdf
LOS CS-SHS PHYS.pdf
LOS CS-SHS LING.pdf
LOS CS-SHS IB.pdf
LOS CS-SHS HK.pdf
LOS CS-SHS CHEM.pdf
LOS CS-SHS MB.pdf
LOS CS-SHS MATH.pdf
LOS CS-SHS CS-update.pdf

Program Features

Academic Level

Undergraduate

Does this major have transcribed concentrations?

No

What is the longest/maximum time to completion of this program?

4 years

What are the minimum Total Credit Hours required for this program?

120

CIP Code

110199 - Computer and Information Sciences, Other.

SOC Code(s) (Should be completed only for Certificates:)

Does this program prepare graduates for entry into a career or profession that is regulated by the State of Illinois?

No

Program of Study

Provide detailed information (course rubrics, numbers, and credit hours) of how a student could obtain 40 credit hours of upper-division coursework.

The upper-division courses in the Sample Sequence for Computer Science + Speech and Hearing Science, BS, include:

CS 341 (4 credit hours) or (CS 340 & CS 441 & (CS 447 or CS 448) (9 credit hours))
 CS 361 (3 credit hours),
 CS 374 (4 credit hours),
 CS 357 (3 credit hours),
 SHS 300 (4 credit hours),
 SHS 301 (4 credit hours),
 SHS 320 (3 credit hours),
 SHS 383 (3 credit hours),
 SHS 450 (4 credit hours),
 SHS 451 (3 credit hours),
 Upper-division electives (5 credit hours) if a student chooses the path with CS 233 & CS 341.

The combined total of upper-division coursework is 40 credit hours. Therefore, if a student chooses the path with CS 233 & CS 341, they will need to select at least 5 credit hours of upper-division electives, of which there are 19 hours. Students will be advised to ensure that they take sufficient upper-division electives to meet the 40 hours requirement.

Attach Program of Study related information here.

Sample Sequence_ Computer Science + Speech and Hearing Science BS_new.docx

Catalog Page Text - Overview Tab

Catalog Page Overview Text

The Bachelor of Science in Computer Science + Speech and Hearing Science (CS+SHS) is an interdisciplinary degree that provides students with a strong foundation in both computational and communication sciences. The program is designed for students interested in leveraging computer science, artificial intelligence, and data science to address challenges in communication, cognition, language, swallowing, hearing, and assistive technology.

Students will develop expertise in human communication, language, cognitive, swallowing, and hearing processes, with a focus on how disruptions in these systems affect communication and wellbeing. They will also acquire computational skills necessary for developing technologies related to speech recognition software, hearing aid, cochlear implants, assistive communication devices, and AI-driven diagnostic and therapeutic tools. This degree prepares students for careers in speech technology, healthcare innovation, and auditory informatics, as well as for graduate study in fields such as speech-language pathology, audiology, machine learning, and computational linguistics.

Students are required to complete a core curriculum in both Computer Science and Speech and Hearing Science, along with electives tailored to their interests. Academic advising is provided to ensure students take courses in the correct sequence and meet industry and graduate school requirements.

For more information about the field of speech-language pathology and audiology, students are encouraged to visit the American Speech-Language-Hearing Association (ASHA) website at www.asha.org.

Statement for Programs of Study Catalog

Graduation Requirements

Minimum hours required for graduation: 120 hours.

All students are required to complete a core curriculum in both Computer Science and Speech and Hearing Science, along with electives tailored to their specific interests. Students are encouraged to work closely with the undergraduate academic advisor to ensure that courses are taken in the appropriate sequence and, if desired, to align their coursework with the prerequisites for admission to graduate programs in speech-language pathology or audiology.

Note on prerequisites for admission to graduate programs in speech-language pathology and audiology:

Undergraduate coursework in the CS+SHS program enable students to complete prerequisite courses for admission to graduate programs in speech-language pathology and audiology. Additionally, many graduate programs require 25 clinical observation hours prior to enrollment. Some of these hours may be fulfilled through SHS 475: Prepracticum in SHS, typically taken during the senior year.

University Requirements

Minimum of 40 hours of upper-division coursework, generally at the 300 and 400 level. These hours can be drawn from all elements of the degree. Students should consult their academic advisor for additional guidance in fulfilling this requirement.

The university and residency requirements can be found in the Student Code (<https://studentcode.illinois.edu/article3/part8/3-801/>) (§ 3-801) and in the Academic Catalog (<http://catalog.illinois.edu/general-information/degree-general-education-requirements/>).

General Education Requirements

Follows the campus General Education (Gen Ed) requirements (<https://courses.illinois.edu/gened/DEFAULT/DEFAULT/>). Some Gen Ed requirements may be met by courses required and/or electives in the program. Speech and Hearing Science Gen Ed courses may be viewed: SHS Courses including those satisfying Gen Ed criteria (<https://catalog.illinois.edu/courses-of-instruction/shs/>)

Code	Title	Hours
Composition I		4-6
Advanced Composition		3
Humanities & the Arts (6 hours)		6
Natural Sciences & Technology (6 hours)		6
	fulfilled by CHEM 101, CHEM 102, CHEM 108, CHEM 202, PHYS 101, PHYS 102, PHYS 211, or PHYS 212; and ANTH 143, ANTH 241, ANTH 246, ANTH 249, HK 150, IB 100, IB 104, IB 110, IB 150, MCB 100, or MCB 150	
Social & Behavioral Sciences (6 hours)		6
	fulfilled by LING 100 and any other course approved as Social & Behavioral Sciences	
Cultural Studies: Non-Western Cultures (1 course)		3
Cultural Studies: US Minority Cultures (1 course)		3
Cultural Studies: Western/Comparative Cultures (1 course)		3
Quantitative Reasoning (2 courses, at least one course must be Quantitative Reasoning I)		6-10
	fulfilled by MATH 220, MATH 221, MATH 231, CS 124, CS 128, and CS 225	
Language Requirement (Completion of the third semester or equivalent of a language other than English is required)		0-15

Computer Science + Speech & Hearing Science Major Requirements

Speech & Hearing Science Major specific Requirements

Chemistry/Physics Requirement (Select one)

Code	Title	Hours
CHEM 101	Introductory Chemistry	3
CHEM 102 & CHEM 103	General Chemistry I and General Chemistry Lab I	4

CHEM 108	Chemistry, Everyday Phenomena	3
CHEM 202 & CHEM 203	Accelerated Chemistry I and Accelerated Chemistry Lab I	5
PHYS 101	College Physics: Mech & Heat	5
PHYS 102	College Physics: E&M & Modern	5
PHYS 211	University Physics: Mechanics	4
PHYS 212	University Physics: Elec & Mag	4

Animal/Human Biology Requirement (Select one)

Code	Title	Hours
ANTH 143	Biology of Human Behavior	3
ANTH 241	Human Biological Variation	3
ANTH 246	Forensic Science	4
ANTH 249	Evolution and Human Disease	3
HK 150	Bioscience of Human Movement	3
IB 100	Biology in Today's World	3
IB 104	Animal Biology	4
IB 110	Race and Environmental Biology	3
IB 150	Organismal & Evolutionary Biol	4
MCB 100	Introductory Microbiology	3
MCB 150	Molecular & Cellular Basis of Life	4

Linguistics Requirement

Code	Title	Hours
LING 100	Intro to Language Science	3

Computer Science specific Requirements**Math Requirement**

Code	Title	Hours
MATH 220 or MATH 221	Calculus Calculus I	5 -4
MATH 231	Calculus II	3
MATH 257	Linear Algebra with Computational Applications	3

Computer Science Core

Code	Title	Hours
CS 124	Introduction to Computer Science I	3
CS 128	Introduction to Computer Science II	3
CS 173	Discrete Structures	3
CS 222	Software Design Lab	1
CS 225	Data Structures	4
CS 361	Probability & Statistics for Computer Science	3
CS 374	Introduction to Algorithms & Models of Computation	4
CS 357	Numerical Methods I	3

Choose from one of the following options listed below. 8-9

Option 1

CS 233 & CS 341	Computer Architecture and System Programming
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Option 2

CS 340 & CS 441	Introduction to Computer Systems and Applied Machine Learning
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AND

CS 447 or CS 448	Natural Language Processing Audio Computing Laboratory
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Total Hours**32-33****Speech and Hearing Science Core Requirements**

Code	Title	Hours
SHS 170	Introduction to Communication Sciences and Disorders	3
SHS 200	General Phonetics	3
SHS 240	Acoustics of Your World: Sound, Ears, and the Brain	3
SHS 300	Anat & Physiol Spch Mechanism	4
SHS 301	General Speech Science	4
SHS 320	Development of Spoken Language	3
SHS 383	Special Topics	3
SHS 450	Intro Audiol & Hear Disorders	4
SHS 451	Aural Rehab Children to Adults	3
Total Hours		30

Corresponding Degree

BS Bachelor of Science

Program Regulation and Assessment**Plan to Assess and Improve Student Learning**

Illinois Administrative Code: 1050.30(b)(1)(D) Provision is made for guidance and counseling of students, evaluations of student performance, continuous monitoring of progress of students toward their degree objectives and appropriate academic record keeping.

Student Learning Outcomes

Student Learning Outcomes (SLOs)

1. Interdisciplinary Knowledge

Students will describe and explain fundamental speech, language, swallowing, cognitive, and hearing processes across the lifespan from the biological, behavioral, and social science perspectives.

2. Computational Application

Students will demonstrate the ability to apply computing principles and develop software-based solutions, to evaluate the effectiveness of such solutions.

3. Technology-Driven Innovation for Communication and Aerodigestive Disorders

Students will demonstrate the ability to design, implement, and assess computing-based solutions for speech, language, swallowing, and hearing applications, such as speech recognition systems, hearing aid enhancements, wearable monitoring technologies, and assistive communication technologies.

4. Teamwork and Leadership in Interdisciplinary Projects

Students will demonstrate the ability to collaborate effectively in interdisciplinary teams to develop and implement computational solutions for communication disorders, demonstrating leadership, communication, and project management skills.

Program Description and Requirements Attach Documents

Delivery Method

This program is available:

On Campus - Students are required to be on campus, they may take some online courses.

Admission Requirements

Provide a brief narrative description of the admission requirements for this program. Where relevant, include information about licensure requirements, student background checks, GRE and TOEFL scores, and admission requirements for transfer students.

Students will follow the standard University requirements for admission to the College of Applied Health Sciences.

Enrollment

Number of Students in Program (estimate)

Year One Estimate

10

5th Year Estimate (or when fully implemented)

100 (25 per year when fully implemented)

Estimated Annual Number of Degrees Awarded

Year One Estimate

0

5th Year Estimate (or when fully implemented)

25 when fully implemented

What is the matriculation term for this program?

Fall ONLY

Budget

Will the program or revision require staffing (faculty, advisors, etc.) beyond what is currently available?

No

Additional Budget Information

Any additional needs will be financed through tuition differentials that Engineering students incur. Students in the CS+ SHS major will follow the current arrangement for CS+X: students will be coded under ENG for tuition assessment. Following the IVCB Appendix II (<https://uofi.app.box.com/s/e63pprtja7vpg1nub6a75qocgqq9slyo>), UIUC colleges and ENG have agreed to evenly split the tuition for CS+SHS.

Both SHS and CS will use funds from the differential tuition to accommodate any increase in advising or teaching loads and they have agreed to split both the tuition differentials and the major fees that is reimbursed on a per-major basis for CS+ SHS students.

Attach File(s)

Financial Resources

What tuition rate do you expect to charge for this program? e.g, Undergraduate Base Tuition, or Engineering Differential, or Social Work Online (no dollar amounts necessary)

Engineering Differential

Attach letters and self-supporting documents as applicable

Institutional Context

University of Illinois at Urbana-Champaign

Describe the historical and university context of the program's development. Include a short summary of any existing program(s) upon which this program will be built.

Explain the nature and degree of overlap with existing programs and, if such overlap exists, document consultation with the impacted program's home department(s).

The CS+SHS program builds on a strong foundation of collaboration between the College of Applied Health Sciences and the Siebel School of Computing & Data Science, as well as a series of successful CS+X degree programs. The addition of CS+Speech and Hearing Science is timely, given the increasing demand for technological innovations in communication, cognition, aerodigestive, and hearing health.

There is an undergraduate program in Speech and Hearing Science within the College of Applied Health Sciences, but this program does not require students to acquire extensive computational skills and is targeted at different career trajectories, primarily focusing on clinical practice. Similarly, the Siebel School of Computing & Data Science offers a variety of specializations, but none specifically focus on integrating computational skills with speech and hearing sciences to address the unique challenges in these fields.

To ensure there is no undue overlap and to foster collaboration, consultations have been held with the impacted departments.

The Speech and Hearing Science Department has expressed strong support for this new interdisciplinary program, recognizing the potential for significant advancements in both research and practical applications. The Siebel School of Computing & Data Science is also fully supportive, seeing this as an extension of their successful CS+X initiative and an opportunity to address critical issues in healthcare and assistive technology.

If letters of support are available attach them here:

Program Support

Provide a brief description of the support for this program, including the financial, faculty, space, advisors/staff. Discuss plans to acquire any additional support that will be needed. If new or additional facilities or significant improvements to already existing facilities is needed, describe the Facility Need, Year 1 and 5 cost, and any other applicable notes.

The proposed Bachelor of Science in Computer Science + Speech and Hearing Science (CS+SHS) will be supported through existing academic, financial, advising, instructional, and research resources within the Department of Speech and Hearing Science (SHS), the College of Applied Health Sciences (AHS), and the Siebel School of Computing and Data Science. The program follows the established CS+X model currently implemented at the University of Illinois and therefore does not require new faculty or staff positions at program launch.

Financial Support. The program will be funded through the existing CS+X tuition model. Students will be assessed the Engineering differential tuition, and revenues will be shared between the Grainger College of Engineering and the College of Applied Health Sciences according to the established Integrated and Value-Centered Budgeting (IVCB) framework. These funds will support any increased instructional, advising, or administrative needs associated with program growth. No additional campus or external funding is anticipated at this time.

Faculty Support. The curriculum is built primarily from existing Computer Science and Speech and Hearing Science courses currently offered by the participating units. Faculty from both departments will contribute to instruction, curriculum oversight, assessment, and student mentoring. The program governance structure will mirror that of existing CS+X programs, with shared oversight by SHS and the Siebel School.

Advising and Staff Support. The majority of academic advising for CS+SHS students will be provided by the Department of Speech and Hearing Science, which serves as the administrative home of the program. SHS academic advisors and the Director of

Undergraduate Studies will oversee curriculum planning, monitor student progress toward degree completion, and provide guidance regarding career and graduate school opportunities. Advising staff in the Siebel School of Computing and Data Science will provide support related to Computer Science course sequencing, policies, and requirements. Students will also have access to existing career services within both the College of Applied Health Sciences and the Grainger College of Engineering, including internship, graduate school, and employment support.

Space and Facilities. No new facilities are required. The program will utilize existing classrooms, laboratories, research facilities, and instructional spaces currently maintained by SHS and the Siebel School of Computing and Data Science. Students will have access to established research laboratories in speech and hearing science.

Future Support Needs. Enrollment is projected to grow from approximately 10 students in Year 1 to approximately 100 total enrolled students across all four years of the curriculum when the program is fully implemented (approximately 25 students per entering cohort). Any future increases in advising, instructional, or administrative support will be funded through tuition differential revenues generated by the program. Existing college and departmental resources are expected to be sufficient to support the projected enrollment growth, and no additional facilities or major infrastructure investments are anticipated.

No new facilities, major renovations, or significant improvements to existing facilities are anticipated. The program will utilize existing instructional, laboratory, research, and advising resources within the Department of Speech and Hearing Science. Should enrollment growth create a need for additional advising or instructional support in future years, these needs will be accommodated through the established revenue-sharing structure used for CS+X programs.

Attach any supporting documents as applicable.

Library Resources

Describe your proposal's impact on the University Library's resources, collections, and services. If necessary please consult with the appropriate disciplinary specialist within the University Library.

As both CS and Speech and Hearing Science degrees already exist, there should be no additional resources needed for the library.

HLC Section

Credit Hours

Existing or repackaged curricula (Courses from existing inventory of courses):

Number of Credit Hours:

120

Percent of Total:

100

Revised or redesigned curricula (Courses for which content has been revised for the new program):

Number of Credit Hours:

0

Percent of Total:

0

New curricula (Courses developed for the new program that have never been offered):

Number of Credit Hours:

0

Percent of Total:

0

Total Credit Hours of the Program:

Number of Credit Hours:

120

Percent of Total:

100

EP Documentation

EP Control Number

EP.27.027

Attach Rollback/Approval Notices

Non-EP Documentation

U Program Review Comments

Rollback Documentation and Attachment

DMI Documentation

Attach Final Approval Notices

Banner/Codebook Name

Program Code:

Minor Code

Conc Code

Degree Code

Major Code

Senate Approval Date

Senate Conference Approval Date

BOT Approval Date

IBHE Approval Date

HLC Approval Date

DOE Approval Date

Effective Date:

Program Reviewer Comments

Emily Stuby (eastuby) (Mon, 03 Nov 2025 19:23:28 GMT): Corrected official program name and diploma title to meet data standards.
Melissa Steinkoenig (menewell) (Mon, 24 Nov 2025 21:19:30 GMT): Gen Ed Table: Good Adjusted the following: Linked Student Code, Academic Catalog, & SHS Course List; Added "or" to list in Natural Sciences; Added CS 128, MATH 220, & MATH 231 to Quantitative Reasoning; Removed 'sum (total) hours' from the Gen Ed Table.

Raksha Mudar (raksha) (Wed, 14 Jan 2026 19:11:12 GMT): Approved

Elsa Gunter (egunter) (Tue, 03 Feb 2026 17:10:08 GMT): Rollback: For making the small adjustments we discussed. --Elsa

Melissa Steinkoenig (menewell) (Thu, 19 Feb 2026 22:24:37 GMT): Gen Ed Table: Good (Appears that MATH 220 was removed as an option for MATH 221 in the major and also the Gen Ed table - if adding in MATH 220 as an option, would be re-added to both).

Steve Herzog (smherzog) (Fri, 20 Feb 2026 22:55:59 GMT): Rollback: Adding MATH 220.

Georgia Malandraki (georgiam) (Mon, 23 Feb 2026 18:00:26 GMT): Rollback: Per Professor Mudar's request, I am rolling back this proposal for the necessary adjustments.

Katherine Freeman (katefree) (Tue, 14 Apr 2026 18:29:10 GMT): approved at Executive Committee 4/14/2026 in the Grainger College of Engineering.

Dan Fogerty (dfogerty) (Fri, 17 Apr 2026 18:30:53 GMT): This is a combined program from two units on campus that has undergone extensive review and consideration within both units. It proposes an innovative and timely program that is well-justified and supported in the plan. I support this proposal.

Meaghan McKenna (meaghanm) (Wed, 22 Apr 2026 04:13:45 GMT): This interdisciplinary undergraduate program has undergone review by both units involved. I support this proposal.

Jacob Fredericks (jfred) (Wed, 22 Apr 2026 21:54:55 GMT): No concerns, I support this proposal. I appreciate the clarity and detail of this proposal.

Tim Hale (timhale) (Thu, 23 Apr 2026 22:12:21 GMT): A very interesting interdisciplinary undergraduate program that will provide students with a unique mix of skills in computer science and understanding of SHS. No concerns with this proposal.

Wesley Wilson (wjwilson) (Tue, 28 Apr 2026 19:21:21 GMT): I agree with all the previous comments. Nothing additional to add.

Key: 1308