Bachelor’s Degree in Interdisciplinary Studies

Specialization in Speech-Language Sciences and Technology

Includes Speech-Language Pathology Assistant Certificate Information
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Greetings from the Department of Health Sciences, Speech-Language Sciences and Technology Program Faculty

Welcome to the Department of Health Sciences, Speech-Language Sciences and Technology Program. As an Interdisciplinary Studies major with an emphasis in Speech-Language Sciences and Technology, you will receive an excellent, broad-based undergraduate degree. You have selected an outstanding major for four reasons.

First, Northern Arizona University is the premier undergraduate educational institution in the State of Arizona. While other colleges and universities in the state provide a fine undergraduate education, the Arizona Board of Regents has designated NAU to emphasize undergraduate education. It is our mission to give you the best undergraduate education possible.

Second, by selecting the Interdisciplinary Studies degree, you will become well-versed in many disciplines and programs and will receive an excellent “general” degree. A Bachelor’s Degree in Interdisciplinary Studies gives you a well-rounded education that will be personally satisfying and help you navigate through the complicated world of the 21st Century. Plus, many employers prefer to hire candidates with general undergraduate degrees; the employer will then train them to know the specifics of the job once employed.

Third, your focus area in Speech-Language Sciences and Technology will give you the basic information you need at the undergraduate level to be prepared to enter most graduate schools in Communication Sciences and Disorders. The courses we offer at the undergraduate level meet the guidelines established by the American Speech-Language-Hearing Association. Most of our courses are offered face-to-face and via the Internet. Of course, it is up to the graduate program to which you are applying to accept these courses.

Finally, we offer five additional courses leading to an NAU Certificate as a Speech-Language Pathology Assistant. The Speech-Language Pathology Assistant courses meet the technical coursework guidelines established by the American Speech-Language-Hearing Association for Speech-Language Pathology Assistants. Speech-Language Pathology Assistants earn competitive wages, and this certificate may provide you with another job opportunity once you graduate. Of course, you are not required to get the certificate.

All in all, we believe you have made an excellent decision to major in the Interdisciplinary Studies program with an emphasis in Speech-Language Sciences and Technology. We look forward to the time we are going to spend with you.

Dennis C. Tanner, William R. Culbertson, Stephanie C. Christensen, and Kris Culbertson
SST PROGRAM GOALS

The overall goal of the SST program is to provide students with a basic foundation and general understanding of human communication processes. This goal includes providing a solid foundation for graduate study in communication sciences and disorders or audiology. Another program goal, for those who are interested, is to provide the academic requirements for the NAU Certificate as a Speech-Language Pathology Assistant.

The courses we offer at the undergraduate level meet the guidelines established by the American Speech-Language-Hearing Association.

STUDENT OUTCOMES

What students should know, understand, or do at the conclusion of this program of study:

1. Integrate phonetic science with anatomy, physiology and speech and hearing science.
2. Summarize normal development of motor, cognitive, social-emotional, and communicative development from birth through adolescence.
3. Define the role of the speech-language pathologist and audiologist in clinical service delivery.
4. Recognize the etiologies of various speech/language related disorders.
5. Apply ethical constructs to health care situations.
6. Distinguish the roles of the speech-language pathologist and speech-language pathology assistant when working in educational and health care delivery settings.
BIS/SST Curriculum

The purpose of this handbook is to provide you with current and important information about the Bachelor's Degree in Interdisciplinary Studies (BIS) with a specialization in Speech-Language Sciences and Technology (SST). We are happy you have chosen a specialization in Speech-Language Sciences and Technology as part of your undergraduate education. It is our sincere hope that the courses you take in the Department of Health Sciences: Speech-Language Sciences and Technology program will be educational, challenging, and rewarding.

ACADEMIC ADVISING

Academic advisors are available to help students plan their curricula for their entire undergraduate experience at NAU. For general academic advising information in the BIS Degree progression, including degree planning, review of earned credits and liberal studies requirements, a College of Health and Human Services academic advisor can be reached at (928) 523-0291. For discipline-specific advising, including information on the field of speech-language sciences and technology, communication sciences and disorders, or for graduate school advice, contact Dr. Culbertson at (928) 523-7440.

INTERDISCIPLINARY STUDIES MAJOR REQUIREMENTS

You may earn either a B.A. or B.S. in Interdisciplinary Studies with a Specialization in Speech Language Sciences and Technology.

To earn the Interdisciplinary Studies degree, you must complete at least 120 units of course work, which are described in the sections that follow:

- **At least 35 units of liberal studies requirements.** Be aware that you may not use courses with the SST prefix to satisfy liberal studies requirements. In addition, you may not use the specific courses in your Concentration, Minor, or Certificate to also satisfy liberal studies requirements.
- **Major Requirements:** at least...
  - 57-68 units of major requirements for the B.A., which includes a language requirement; or...
  - 60-67 units of major requirements for the B.S., which includes a science requirement.
  - Major requirements include a specialization field and a concentration field, minor or certificate.
- **Elective Courses,** if needed, to reach an overall total of at least 120 units.

For current program information and complete course descriptions, view the NAU online catalog at: catalog.nau.edu/Catalog (click on the link for "Health Professions").
Be aware that some courses required for your degree may have prerequisites that you must also take. Check the courses in the appropriate subject. (You may be able to count these prerequisites toward your liberal studies or general elective credit.)

Please note that you must complete Northern Arizona University’s diversity requirements by taking two 3-unit courses, one in U.S. ethnic diversity and one in global diversity awareness. These courses may be used to meet other requirements within your academic plan if you choose them carefully. For more information on diversity requirements, go to catalog.nau.edu/diversity-requirements.html.

The Interdisciplinary Studies requires that you must take at least 30 units of upper-division courses (those numbered 300 and above).

Additionally, please note that you may be able to use some courses to meet more than one requirement; however, you must still meet the total of at least 120 units to graduate. Contact your advisor for details.

Finally, please note that the requirements for any particular Interdisciplinary Studies plan will be more specific than the general academic description given here. Academic areas are listed in this handbook at the end of this section. See the specific academic area for the Interdisciplinary Studies plan in which you are interested.

Please note that you may be able to use some courses to meet more than one requirement.

- You may use courses with prefixes in your specialization area to fulfill liberal studies, but you may not use the same course(s) to satisfy your specialization requirements and your liberal studies requirements.
- Neither may you use the specific courses in your concentration to satisfy liberal studies requirements.
- If you do use some courses to meet more than one requirement, you must still meet the total of at least 120 units to graduate. Contact your Interdisciplinary Studies advisor for details.

**Major Requirements**

You must complete 57-68 units for the B.A. major or 60-67 for the B.S.

Please note that you must have a grade of "C" or better in all courses used in the major, which includes the specialization, concentration/minor/certificate, and the Interdisciplinary Studies requirements areas.
SST Specialization Requirements

The SST specialization offers a unique perspective on human interaction that can serve in any field of endeavor, and it provides the pre-professional course work you need to pursue graduate education in communication sciences and disorders, including Northern Arizona University’s graduate program in clinical speech pathology.

To complete this specialization, you would take the following 27 units:

- SST 202 and 251 (6 units)
- SST 350, 375, and 376 (9 units)
- SST 405 and 456 (6 units)
- HHS 300W, which meets Northern Arizona University’s junior writing requirement (3 units)
- SST 455C, which meets Northern Arizona University’s senior capstone requirement (3 units)

Concentration, Minor, or Certificate Requirements

Meet this 15-18 unit requirement by choosing one of the three options described in this section.

- **Concentration in Interdisciplinary Studies**
  
  Take at least 15 units that include a minimum of 3 units of credit in each of the following blocks: Ethical Reasoning; Creative Inquiry; Scientific Reasoning; Changing Worlds; and Cultural Perspectives. Courses used to satisfy this requirement may not have been used to satisfy any other requirement for this degree. At least 9 units must be taken at Northern Arizona University and at least 6 units of the 9 units must be upper-division (300 or 400 level).

- **Minor**
  
  You may also fulfill this requirement by completing a minor outside your specialization field, instead of either a concentration or certificate. The minor, which will require at least 18 units for the minor, must be completed according to the requirements listed in your catalog of graduation. Refer to specific academic areas within the NAU course catalog of graduation for information about the course work requirements for particular minors in which you may be interested. (Please note that not all minors are available statewide or online.)
• **Certificate**

You may also fulfill this requirement by completing a certificate *outside your specialization field*, instead of either a concentration or a minor. *The certificate requires at least 15 units.* These units must be completed according to the requirements listed in your catalog of graduation. Refer to specific academic areas within the catalog for information about the course work requirements for particular certificates in which you may be interested. (Please note that not all certificates are available statewide or online.)

Note that the SST SLP-A courses are not outside your specialization field.

**B.A. / B.S. Interdisciplinary Studies Requirements**

The program in interdisciplinary studies, of which SST is a part, is one that exposes students to multiple academic disciplines for a well-rounded educational experience. Thus, required courses include:

• **Computer Literacy:** 3 units for the B.A. / 6 units for the B.S.

This course work must help you to understand, in general, the technical components of computers and information systems, how to solve problems using information systems technology, word processing, spreadsheet use, database management, graphic information software, website development, graphic design, and the use of statistical analysis software. Computer literacy courses must have been taken within 10 years of admittance to Northern Arizona University.

• **Communication Courses:** (6 units)

You must choose 3 units of theory-based course work and 3 units of performance-based course work. At least 3 units of the 6 units must be upper-division courses.

**Theory-based course work (3 units).** Select one from: COM 200, CST 271, 321, 323, 351, 361, 365, 424, 465, 472, 475, 477

Please note that you may not use CLEP or locally prepared exams to satisfy this requirement. Transfer credit used to satisfy this requirement must be approved by the Interdisciplinary Studies/BAS Advisory Council.

**Performance-based course work (3 units).** Select one from: CST 111, 311, 312, 314, 315, 318

Performance-based courses are defined as having at least 51 percent of the evaluation of the student based on oral performance.
• Language or Science Requirement

  o For the B.A., take a language requirement. You must demonstrate proficiency in a language other than English that is equivalent to four terms of university course work in the same language. You may satisfy this requirement by taking language courses or by testing out of all or part of it by taking CLEP or other exams.

  o For the B.S., take a science requirement. Take at least 12 units selected from:

<table>
<thead>
<tr>
<th>ANT 101, 102, 104</th>
<th>BBA 340</th>
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<tr>
<td>BIO 301, 302</td>
<td>PSY 230 or equivalent</td>
</tr>
<tr>
<td>MAT 114, STA 270, or equivalent</td>
<td>ESE 380</td>
</tr>
<tr>
<td>ECI 497C</td>
<td>SOC 355W or 365</td>
</tr>
<tr>
<td>(CCJ 355 or PAS 355) or PAS 356</td>
<td>POS 303</td>
</tr>
<tr>
<td><strong>OR courses with Biology, Physics, Astronomy, Mathematics, Statistics, Geology, Environmental Sciences, or Chemistry prefixes (12 units).</strong> At least 6 units must be upper-division. All other courses must be pre-approved by the program director.</td>
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Additionally, courses taken in the science requirement may not be used to satisfy any other requirements in the degree plan.

**General Electives**

Additional course work is required, if, after you have met the previously described requirements, you have not yet completed a total of 120 units of credit.

You may take these remaining courses from any academic areas, using these courses to pursue your specific interests and goals. We encourage you to consult with your advisor to select the courses that will be most advantageous for you. (Please note that you may also use pre-requisites or transfer credits as electives if they weren’t used to meet major, minor, or liberal studies requirements.)
Specialization (27 Credit Hours)

The BIS program offers students with an interest in Speech-Language Sciences and Technology the advantage of a broad educational experience with the ability to learn about human communication and disorders. The courses required for the Specialization in Speech-Language Sciences and Technology serve two purposes. First, they provide you with general education in the science of communication and its disorders which contributes to the broad appeal of the BIS program. Second, the emphasis courses provide you with the pre-professional course requirements necessary to enter many graduate programs in Speech-Language Pathology or Audiology across the nation, including Northern Arizona University's graduate program in Clinical Speech Pathology.

SST SPECIALIZATION COURSES

SST 202 PHONETICS (3)
Sounds of American English, emphasizing acoustic and physiologic aspects of articulation development and assessment. Provides a basic appreciation of the scope and importance of the science of speech sounds as vehicles for human communication. Satisfies Liberal Studies Cultural Understanding distribution block requirement.

SST 251 ANATOMY AND PHYSIOLOGY OF SPEECH AND LANGUAGE (3)
Structure and function of the mechanisms used in speech and language.

SST 350 COMMUNICATION DEVELOPMENT IN CHILDREN (3)
Normal development of speech and language, including the relationship of perceptual, cognitive, social-emotional, motor, and communicative factors; emphasis on language and articulatory systems as well as articulation and language acquisition.

SST 375 SPEECH-LANGUAGE SCIENCES (3)
Addresses the fundamentals of the sciences pertaining to articulation, voice, and language. Prerequisites: SST 202 and 251, or instructor’s consent

SST 376 HEARING SCIENCE (3)
Introduces the normal hearing process; focusing on the peripheral auditory systems, coding of the basic attributes of sound, and the perception of simple sounds.
SST 405 NEUROLOGICAL FOUNDATIONS OF SPEECH, LANGUAGE, AND HEARING (3)
Application of the principles of neuroanatomy and neurophysiology to the study of normal human communication.
Prerequisite: SST 251

SST 455C SURVEY OF SPEECH PATHOLOGY (3) [Capstone Course]
Reviews various types of speech, voice, and language problems commonly evaluated and treated by practicing clinicians. Provides basic information about diagnosis and treatment in preparation for entering graduate programs. A summative experience for students completing their baccalaureate degrees.
Prerequisites: SST 202, 251, 350, 375, 376, or instructor’s consent.

SST 456 SURVEY OF AUDIOLOGY (3)
Anatomy and physiology of the auditory system; acoustics and psychoacoustics of hearing; hearing conservation.
Prerequisite: SST 376

HS 300W APPLIED ETHICS IN HEALTH CARE (3)
[Junior Level Writing Course]
This course examines health care practices from a moral point of view using philosophical argument techniques.

For current program information and complete course descriptions, view the NAU online catalog at: catalog.nau.edu/Catalog (click on the link for “Health Professions”).

SST ELECTIVE COURSES

SST 191 COMMUNICATION DISORDERS IN LITERATURE AND MEDIA (3)
Catalog Description: Explores communication disorders as they are portrayed in literature and media. Each major communication disorder is also explored relative to etiology, diagnosis, and treatment.

SST 301: Speech-Language Pathology Assistant (SLPA): Childhood Communication Disorders (3)
Catalog Description: Addresses the major childhood communication disorders focusing on the role of the speech-language pathology assistant (SLPA) in their diagnosis and treatment.
Additional Information: This course examines the typical speech, voice, language, and hearing pathologies seen in young children. It includes, but is not limited to, articulation, fluency, phonology, and developmental language disorders. It also addresses developmental apraxia of speech and childhood dysarthria and dysphagia as seen in children with cerebral palsy and muscular dystrophy.
SST 302: Speech-Language Pathology Assistant (SLPA): Adult Communication Disorders (3)
Catalog Description: Addresses the major adult communication disorders focusing on the role of the speech-language pathology assistant (SLPA) in their diagnosis and treatment.
Additional Information: This course addresses aphasia, apraxia of speech and the dysarthrias typically seen in adults. Cognitive disorders as seen in traumatic brain injuries (TBI) as well as adult dysphagia are also addressed.

SST 303: Speech-Language Pathology Assistant (SLPA): Principles of Screening and Treatment (3)
Catalog Description: Addresses principles of screening and treatment of communication disorders focusing on the role of the speech-language pathology assistant (SLPA).
Additional Information: This course is specifically designed to provide speech-language pathology assistants with ASHA (American Speech-Language-Hearing Association) approved screening methods and therapies.

SST 304: Speech-Language Pathology Assistant (SLPA) – Case Studies (3)
Catalog Description: Uses a case studies format to explore the etiology, diagnosis, and treatment of communication disorders focusing on the role of the speech-language pathology assistant (SLPA).
Additional Information: This course is designed to provide the student with actual cases seen by the instructor (or staff) and a review of diagnostic and treatment strategies.
SST Student Advisement and
Frequently Asked Questions

Advisors are available to advise students about curriculum and administrative policies. Every student should contact an advisor at least once per semester.

An advisor must release the Registrar’s online “hold” before students can register for classes each term. Students are responsible for arranging the advisory visits to make sure they are in compliance with university degree program requirements and to answer any other questions they may have.

FREQUENTLY ASKED QUESTIONS (FAQs)

What are the requirements for being admitted into the graduate program of Communication Sciences and Disorders?

You will need to make an appointment with an academic advisor in the College of Health and Human Services. You may call (928) 523-0921 to schedule your appointment during the normal academic year. Distance learning students may call Extended Campuses at (800) 426-8315.

Will I get a degree in Communication Sciences and Disorders?

No. In this program you will receive a Bachelor of Arts or Bachelor of Science in Interdisciplinary Studies (BIS degree) with a specialization in Speech-Language Sciences and Technology. The BIS program specialization provides all requirements stipulated by the Council on Academic Accreditation (CAA) of the American Speech-Language and Hearing Association for education in basic human communication processes. Please note that CAA does not currently accredit undergraduate programs. CAA only accredits graduate programs. The SST undergraduate courses are generally accepted by all graduate degree programs in the U.S.

Is there a course I can take to help me decide whether this major is for me?

Yes. SST 191: Communication Disorders in Media and Literature covers the nature of the profession and provides an overview of the disorders.
What does it mean to have a *Specialization* and a *Concentration*?

A specialization is like having a major; however you will receive a BIS degree rather than a degree in Speech-Language Sciences and Technology. The concentration is like a minor, but all of the courses do not have to be in the same department.

What courses do I have to take for a Specialization in Speech-Language Sciences and Technology?

These classes are listed and described in SST BIS Handbook and the NAU Undergraduate Catalog. The recommended order in which these classes are taken is:

- SST 202 Phonetics (must be taken first or with SST 251)
- SST 251 Anatomy/Physiology of Speech and Language (prerequisite for SST 405)
- SST 350 Communication Development in Children
- SST 375 Speech-Language Sciences (prerequisite for SST 455)
- SST 376 Hearing Science (prerequisite for SST 456)
- SST 405 Neurological Foundations of Speech, Language, and Hearing
- SST 455C Capstone Survey of Speech Pathology
- SST 456 Survey of Audiology

Are Specialization courses offered online?

Yes. Specialization courses are offered in both online and classroom formats.

How do I know which classes will fulfill the distribution requirements for the BIS program?

All BIS requirements, including the authorized oral communication courses are found at:

catalog.nau.edu/Catalog

Can one class fulfill the requirement in more than one category?

Yes. In some cases one class can fulfill the requirement in more than one category; however, the credit can only be counted once and care should be taken to ensure that you would still have enough credits to graduate. For example, if you took SPA 101 it could be used for your language requirement and for your Cultural Understanding requirement, but the credits can only be counted once.
What are upper division hours and how many do I need?

Upper division hours are the credit hours earned in courses having numbers at 300 level or above. You need a total of 36 upper division hours to graduate. Twenty-one of these 36 hours will be completed just within your specialization classes, and it is likely that several more will be completed within your focus.

What is the Capstone course?

A capstone course must be completed within each emphasis for the BIS degree. SST 455C has been chosen as the capstone course for the Specialization in Speech-Language Sciences and Technology. This is not an additional class beyond the already-stated required classes for this emphasis.

What is the Junior-Level Writing Requirement for this emphasis?

The Department of Health Sciences: SST requires students to take HS 300W, online, to fulfill three credits for the junior writing requirement under the category of writing intensive courses.

Students whose learning styles inhibit success in online courses may arrange for an alternate junior-level writing course with an academic advisor.

May I take sign language to fulfill my foreign language requirement?

Yes. Through an articulation agreement between Coconino Community College and NAU, you may use 6 credits of sign language courses to satisfy the foreign language requirement in your Communication Skills block.

Does anything need to be signed by an advisor in order to register for classes?

If it is your first time registering for classes in this program of study, you need to see a CHHS academic advisor to have your SST BIS declaration and name entered into the NAU computer system and released to register.

Contact: Ms. Eva Johnson
Email: Eva.Johnson@nau.edu
Telephone: (928) 523-0291
It is strongly recommended that you visit with the academic advisor at least once per academic year to ensure you are meeting all requirements and to update your student file in our office.

The CHHS academic advisor is available during regular office hours (posted) to answer and advise students about degree requirements and progress.

The SST advisor is a faculty member in the Health Sciences Department/ SST program, and is the students' resource for questions and advice about the field of Speech-Language Pathology or Audiology and graduate studies.

What are Leveling Courses?

Leveling courses are those courses that students with baccalaureate degrees in other majors take to fulfill basic academic requirements for graduate studies in audiology or speech-language pathology. SST leveling courses are offered both online and in the classroom. The 21 leveling credits include:

- SST 202 Phonetics (should be taken first or with SST 251)
- SST 251 Anatomy/Physiology of Speech and Language (prerequisite for SST 405)
- SST 350 Communication Development in Children
- SST 375 Speech-Language Sciences (prerequisite for SST 455)
- SST 376 Hearing Science (prerequisite for SST 456)
- SST 405 Neurological Foundations of Speech, Language, and Hearing
- SST 456 Survey of Audiology

To whom do I give my graduation application papers and what needs to be filled out?

Your graduation application will be completed by you and your advisor during an appointment in the advisor’s office.

To understand the requirements for this BIS degree, visit the academic catalog and look at Health Sciences: BIS Speech Language Sciences and Technology.

To confirm the requirements you have completed toward this degree, open “Degree Progress” under “Academics” in your own LOUIE account.

For further information regarding the application process for graduation, go to "Graduation Application Packet" at:

http://home.nau.edu/registrar/graduation.asp
For details about graduation ceremonies, navigate to "Fall and Spring Commencement Dates" at:

http://www.nau.edu/registrar/graduation/Fall_and_Spring_schedule.htm

**What does Speech-Language Pathology involve?**

Speech-Language Pathology involves the identification, assessment and treatment of a wide variety of communication disorders (congenital, developmental, and acquired) in both children and adults. Communication disorders include difficulty with:

- Forming speech sounds (Phonology; Articulation)
- Formulating words and phrases (Language)
- Creating the normal rhythms of speech (Fluency; Stuttering)
- Making a normal voice
- Hearing / understanding
- Swallowing

**Where do Speech-Language Pathologists work?**

Speech-Language Pathologists work in a variety of locations including hospitals, community health centers, schools, universities, other special institutions, and in private practice.

**What does Audiology involve?**

Audiology involves the evaluation and assessment of hearing, as well as counseling to educate the client on treatment options including: aural rehabilitation and assistive devices (e.g., hearing aids, FM systems).

**Where do Audiologists work?**

Audiologists may work in a variety of locations. Typically audiologists work in private practice, hospitals or with Ear, Nose and Throat specialists (ENTs).

**What jobs are available for someone with a BIS degree with an emphasis in Speech-Language Sciences and Technology?**

You can work as a speech pathology assistant with a BIS degree, depending upon the requirements of the workplace. The SST curriculum includes four online courses devoted to SLP Assistant Training. BIS emphasis students are encouraged to take these courses as electives in order to obtain a NAU certificate in SLP Assistance.
What is a Speech-Language Pathology Assistant?

Speech-Language Pathology Assistants work under the supervision of a certified Speech-Language Pathologist and command competitive hourly wages with opportunities to practice in hospitals, schools, nursing homes, rehabilitation facilities, Head Start programs, and other sites dealing with people with communication disorders. Many students in graduate school pay their way through school and gain experience by working as a speech-language pathology assistant.

What classes are required to obtain NAU’s SPEECH-LANGUAGE PATHOLOGY ASSISTANT CERTIFICATE?

The following 7 courses will lead to a certificate in speech-language pathology assistance:

1. SST 191 Communication Disorders in Literature and Media
2. SST 202 Phonetics (must be taken first or with SST 251)
3. SST 251 Anatomy/Physiology of Speech and Language (prerequisite for SST 405)
4. SST 301 Training Module for Speech-Language Pathology Assistants: Childhood Communication Disorders
5. SST 302 Training Module for Speech-Language Pathology Assistants: Adult Neurogenic Communication Disorders
6. SST 303 Training Module for Speech-Language Pathology Assistants: Speech and Hearing Screening and Therapeutic Principles
7. SST 304 Case Studies and Management for Speech-Language Pathology Assistants

Does NAU offer graduate programs in Speech Pathology and Audiology?

NAU has an accredited graduate program in Communication Sciences and Disorders, but does not have a graduate program in Audiology. However, the SST BIS degree should fulfill the requirements necessary to apply to any accredited graduate Speech Pathology or Audiology program in the United States.

Individual workplace requirements may include therapy practicum hours for SLP Assistants. Practicum hours are not offered as part of the BIS curriculum. You must complete practicum hours in conjunction with your workplace.

A Master’s degree is required to become an independently practicing, certified speech-language pathologist or audiologist.
SST Organizational Structure

The SST Department is located physically and administratively in the College of Health and Human Services. SST was established as the program in Speech Pathology and Audiology in 1974, in the Speech-Theater Department, when it began by offering a Bachelor's of Science in Speech-Language Pathology and Audiology.

In 1981, NAU began offering the Master of Science degree in Clinical Speech Pathology. In 1997, the Bachelor of Science degree was eliminated and undergraduate education in Speech-Language Sciences and Technology is now offered as an emphasis area in the Bachelor's Degree in Interdisciplinary Studies (BIS) program.

In 2003, the undergraduate program moved to the Department of Health Sciences (HS) and adopted the name, "Speech-Language Sciences and Technology (SST)" in accordance with the university's commitment to excellence in undergraduate education.

Currently, SST has four full-time teaching faculty members. Our programs include traditional classroom and online delivery modalities to best suit individual students' needs and learning styles. SST-BIS offers a four-year baccalaureate degree program as well as a 21-hour certificate program in Speech-Language Pathology Assistance.

SST teaching and clinical faculty, where their highest degrees were obtained, and their academic rank:

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<thead>
<tr>
<th>Name</th>
<th>Institution</th>
<th>Academic Rank</th>
</tr>
</thead>
<tbody>
<tr>
<td>William R. Culbertson, Ph.D.</td>
<td>Michigan State University</td>
<td>Professor</td>
</tr>
<tr>
<td>Dennis C. Tanner, Ph.D.</td>
<td>Michigan State University</td>
<td>Professor</td>
</tr>
<tr>
<td>Stephanie C. Christensen, Ph.D.</td>
<td>Arizona State University</td>
<td>Senior Lecturer</td>
</tr>
<tr>
<td>Kristan E. Culbertson, M.S.</td>
<td>Northern Arizona University</td>
<td>Lecturer</td>
</tr>
</tbody>
</table>
NAU's Safe Working and Learning Environment Policy seeks to prohibit discrimination and promote the safety of all individuals within the university. The goal of this policy is to prevent the occurrence of discrimination on the basis of sex, race, color, age, national origin, religion, sexual orientation, disability, or veteran status and to prevent sexual harassment, sexual assault or retaliation by anyone at this university.

You may obtain a copy of this policy from the college dean's office. If you have concerns about this policy, it is important that you contact the departmental chair, dean's office, the Office of Student Life (523-5181), the academic ombudsperson (523-9368), or NAU's Office of Affirmative Action (523-3312).

**Students with Disabilities**

If you have a documented disability, you can arrange for accommodations by contacting the office of Disability Support Services (DSS) at 523-8773 (voice), 523-6906 (TTY). In order for your individual needs to be met, you are required to provide DSS with disability-related documentation and are encouraged to provide it at least eight weeks prior to the time you wish to receive accommodations. You must register with DSS each semester you are enrolled at NAU and wish to use accommodations.

Faculty are not authorized to provide a student with disability-related accommodations without prior approval from DSS. Students who have registered with DSS are encouraged to notify their instructors a minimum of two weeks in advance to ensure accommodations. Otherwise, the provision of accommodations may be delayed.

Concerns or questions regarding disability-related accommodations can be brought to the attention of DSS or the Affirmative Action Office.

**Institutional Review Board**

Statement of Ethical Principles  
Date of Implementation: March 2, 2009

Northern Arizona University is committed to excellence in teaching, research, and public service, and to the conduct of these activities under the highest possible ethical standards. For projects involving living humans as subjects of research and research-related projects, Northern Arizona University is guided by the ethical principles regarding all research involving human subjects set forth in the Declaration of Helsinki, and the National Commission for the Protection of Human Subjects of Biomedical and Behavioral Research entitled Ethical Principles and Guidelines for the Protection of Human Subjects of Research: The Belmont Report.

In addition, the requirements set forth in Title 45, Part 46 of the Code of Federal Regulations will be followed for all applicable Department of Health and Human Services
(DHHS) funded research and, except for the requirements for reporting information to DHHS, for all other research without regard to source of funding.

Any study involving observation of or interaction with human subjects that originates at NAU—including a course project, report, or research paper—must be reviewed and approved by the Institutional Review Board (IRB) for the protection of human subjects in research and research-related activities.

Students conducting independent research projects should consult with their course instructor before beginning the project to ascertain if the project proposal needs to be reviewed by the IRB and/or to secure information or appropriate forms and procedures for the IRB review.

IRB Policies and Procedures are posted online at:

http://nau.edu/Research/Compliance/

**Academic Contact Hour Policy**

The Arizona Board of Regents Academic Contact Hour Policy (ABOR Handbook, 2-206, Academic Credit) states: "...an hour of work is the equivalent of 50 minutes of class time at least 15 contact hours or recitation, lecture, discussion, testing or evaluation, seminar, or colloquium as well as a minimum of 30 hours of student homework is required for each unit of credit."

The reasonable interpretation of this policy is that for every credit hour, a student should expect, on average, to do a minimum of two additional hours of work per week; e.g., preparation, homework, studying.

**Academic Integrity**

The university takes an extremely serious view of violations of academic integrity. As members of the academic community, NAU's administration, faculty, staff and students are dedicated to promoting an atmosphere of honesty and are committed to maintaining the academic integrity essential to the education process. Inherent in this commitment is the belief that academic dishonesty in all forms violates the basic principles of integrity and impedes learning. Students are therefore responsible for conducting themselves in an academically honest manner.

Individual students and faculty members are responsible for identifying instances of academic dishonesty. Faculty members then recommend penalties to the department chair or college dean in keeping with the severity of the violation. The complete policy on academic integrity is in Appendix G of NAU's Student Handbook.
**ACADEMIC DISHONESTY**
For the full NAU policy on Academic Dishonesty, please see Appendix G of the NAU Student Handbook at:

http://home.nau.edu/studentlife/handbook/appendix_g.asp

**ACADEMIC INTEGRITY** means that students and faculty jointly agree to adhere to a code of conduct appropriate to the mutually trusting relationship that must exist between student and teacher. Those values will not allow either to take credit for work not their own, or to be deceitful in any way, or to take unfair advantage of other students or of each other, or to be other than totally truthful and straight-forward in all that they do.

**ACADEMIC DISHONESTY** is a form of misconduct that is subject to disciplinary action under the Student Code of Conduct and includes the following: cheating, fabrication, fraud, facilitating academic dishonesty and plagiarism.

**GRADE APPEALS**
The NAU grade appeal procedure is described in the Northern Arizona University Student Handbook. The NAU Student Handbook is online at:

http://home.nau.edu/studentlife/handbook.asp
Information Resources

Interdisciplinary Studies

Alison Leigh Brown
Co-Director of BIS/BAS program
Phone: 602-776-4671
E-mail: alison.brown@nau.edu

For Mountain Campus Students, contact:
Gateway Student Success Center
Northern Arizona University
PO Box 4097
Flagstaff, AZ 86011-4097
Phone: 928-523-4772
E-mail: gateway@nau.edu.

For Extended-Campus Students, contact:
Extended Campus Service Center
Northern Arizona University
PO 4117
Flagstaff, AZ 86011
Phone: 1-800-426-8315
E-mail: extended.campuses@nau.edu

Gateway Student Success Center
Building 43, Central Campus
Academic Advising Services
http://www4.nau.edu/gateway/

College of Health and Human Services: Building 66, Room 118
http://www.nau.edu/hp/

Student Advising: http://www2.nau.edu/~chhs-p/advising_by_degree.php

Department of Health Sciences:
Building 66, Room 230
http://hs.nau.edu/

Speech-Language Sciences and Technology:
Contact Health Sciences Department or http://hs.nau.edu/index.php

Speech-Language Pathology Assistant Training Program:
email:speech.assistant@nau.edu
Telephone: 928-523-7419
## CURRICULUM CHECK SHEET

<table>
<thead>
<tr>
<th>NAME</th>
<th>ID NUMBER</th>
<th>EVALUATOR</th>
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### LIBERAL STUDIES (35 Hours)

- **Foundations (7 hours minimum) (FNRQ)**
  - MAT 114 **see 2nd page**
  - ENG 105
  - ENG 101 and ENG 102 **see 2nd page**

- **Distribution Requirement (25 hours)**
  - Science (7 hours) (at least one must be a LS course)
  - Aesthetic & Humanistic Inquiry (6 hours) (AHD)
  - Cultural Understanding (6 hours) (CU)
  - Social and Political Worlds (6 hours) (SPW)

- Liberal Studies Elective (3 hours)

**TOTAL HOURS** (35 hours minimum)

### DIVERSITY COURSE REQUIREMENT

- **GLOBAL diversity course:**
- **US ETHNIC diversity course:**

### DEGREE SUMMARY

- Total Liberal Studies Hours
- Total BA-IS Curriculum Hours
- Total Elective Hours
- **GRAND TOTAL (120 hours minimum)**

### OTHER GRADUATION REQUIREMENTS

- Total Community College Hours (64 max)
- Total NAU Hours (30 hours/18 upper division)
- Total University Hours (56 minimum)
- Total Upper Division Hours (30 hour minimum)
- NAU Cumulative GPA (2.0 minimum)

**Combined**

Specialization/Concentration/Communication Skills - C

### TRANSFER SUMMARY

<table>
<thead>
<tr>
<th>INSTITUTION</th>
<th>ABBREVIATION</th>
<th>HOURS</th>
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### TOTAL TRANSFER HOURS:

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<th>HRS</th>
<th>SEM &amp; YR</th>
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<td>SST 375</td>
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<td>SST 376</td>
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<td>SST 405</td>
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<td>SST 456</td>
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<td>HHS 300W</td>
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<tr>
<td>SST 455C</td>
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</table>

**CONCENTRATION, MINOR or CERTIFICATE (outside specialization area) (15 hours)**

For Concentration: 3 classes minimum must be from NAU, and 2 of 5 must be upper division

### Ethical Reasoning (3 units)

### Creative Inquiry (3 units)

### Scientific Inquiry (3 units)

### Changing Worlds (3 units)

### Cultural Perspectives (3 units)

### COMMUNICATION SKILLS (21-24 hours)

1. Computer Literacy (3 hours) CIS 120 and 120L or equivalent
2. Oral Communication (6 hours) One MUST be Upper Division
   Choose: 3 classes from List A AND 1 class from List B: List A: SC 111, 311, 312, 314, 315, 318
   List B: COM 200; SC 271, 321, 323, 351, 361, 365, 424, 472, 475, 477

### UPPER DIVISION

3. Modern Language (12-16 hours) Four semesters of same language

### ELECTIVES (If Needed to Reach 120 hours)
Bachelor of Arts in Interdisciplinary Studies  
Specialization: Speech-Language Sciences & Technology  
2010-2011 Undergraduate Catalog

I. LIBERAL STUDIES (35 hours minimum)
You must complete 35 hours of Liberal Studies credit (university colloquium, foundation studies and discipline studies). If you transfer to NAU from an Arizona community college and your transcript certifies that you completed either the Arizona General Education Curriculum (AGEC) or a Transfer General Education Core Curriculum (TGECC), you have satisfied NAU’s liberal studies requirements.

Foundations (7 hours minimum)
ENG 105 - Critical Reading and Writing OR ENG 101 (3 hours) and ENG 102 (3 hours) 4 - 6 hours
MAT 114 - Quantitative Reasoning 3 hours

**Placement test may be required. Prerequisites may be necessary before student is eligible for MAT 114.

Distribution Requirement (25 hours minimum)
Science (At least one course must be a Lab Science Course) 7 hours
Aesthetic and Humanistic Inquiry 6 hours
Cultural Understanding 6 hours
Social and Political Worlds 6 hours
Liberal Studies Elective (any liberal studies course) 3 hours

II. DIVERSITY COURSE REQUIREMENTS
The requirement is for all NAU baccalaureate students who graduate under the provisions of the 2011-2012 NAU Undergraduate Catalog and subsequent catalogs:

- 3 units of course-work that meet the criteria for the US Ethnic Diversity requirement (see list of approved courses)
- 3 units of course-work that meet the criteria for the Global Diversity requirement (see list of approved courses)
- These requirements may be fulfilled in any part of your program of program of study.

III. SPEECH-LANGUAGE SCIENCES & TECHNOLOGY CURRICULUM

SPECIALIZATION (27 HOURS)
SST 202: Phonetics (also fulfills CU) 3 hours
SST 251: Anatomy and Physiology of Speech and Language 3 hours
SST 350: Communication Development in Children 3 hours
SST 375: Speech-Language Sciences (pre-requisite: SST 202 & SST 251) 3 hours
SST 376: Hearing Science 3 hours
SST 405: Neurological Foundations of Speech, Language, and Hearing (pre-requisite: SST 251) 3 hours
SST 456: Survey of Audiology (pre-requisite: SST 376) 3 hours
HHS 300W: Applied Ethics in Healthcare (ENG 101/102 and Jr. standing) 3 hours
SST 455C: Survey of Speech Pathology (pre-requisite: SST 202, SST 251, SST 350, SST 375) 3 hours

IV. CONCENTRATION, MINOR or CERTIFICATE – 15 HOURS
9 of the 15 credits MUST be from NAU, 6 MUST be Upper Division
***Please request the attachment for classes that qualify under this section***
1. Ethical Reasoning (3 units)
2. Creative Inquiry (3 units)
3. Scientific Reasoning (3 units)
4. Changing Worlds (3 units)
5. Cultural Perspectives (3 units)

V. COMMUNICATION SKILLS (21-25 HOURS)

1. COMPUTER LITERACY (3 HOURS)
CIS 120: Intro to Computer Information Systems (also fulfills SAS) 3 hours
**Please note that CIS 120 is not offered online through NAU — please work with your advisor for options
2. ORAL COMMUNICATION (6 HOURS)
3 of the 6 hours MUST be Upper Division
Choose 1 Class from List A AND 1 Class from List B
List A:
SC 111: Fundamentals of Public Speaking (also fulfills SPW) 3 hours
SC 311: Advanced Presentation Techniques 3 hours
SC 312: Methods of Interviewing 3 hours
SC 314: Communicating in Instructional Environments 3 hours
SC 315: Business and Professional Speaking 3 hours
SC 318: Oral Argument and Law (also fulfills SPW) 3 hours

List B:
COM 200: Basic Communication Theory (prerequisite: ENG 105 or ENG 101 and ENG 102) 3 hours
SC 271: Group Communication 3 hours
SC 321: Nonverbal Communication 3 hours
SC 323: Intercultural Communication (also fulfills CU) 3 hours
SC 351: Interpersonal Communication 3 hours
SC 361: Persuasion 3 hours
SC 365: Communication on Contemporary Affairs (also fulfill SPW) 3 hours
SC 424: Gender and Communication (prereq: Junior level status) 3 hours
SC 472: Organizational Communication (prereq: Junior level status) 3 hours
SC 473: Health Communication 3 hours
SC 477: Mediation and Conflict management (prereq: Junior level status) 3 hours

3. MODERN LANGUAGE (12-16 HOURS) (ALL FOUR SEMESTERS MUST BE SAME LANGUAGE OTHER THAN ENGLISH)

VI. NAU ELECTIVES TO TOTAL 120 HOURS
# Curriculum Check Sheet

<table>
<thead>
<tr>
<th>NAME</th>
<th>ID NUMBER</th>
<th>EVALUATOR</th>
<th>DATE</th>
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## Liberal Studies (35 Hours)

<table>
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<tr>
<th>Course Prefix &amp; Number</th>
<th>HRS</th>
<th>SEM &amp; YR</th>
<th>INST/ GRADE</th>
<th>UD</th>
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<tbody>
<tr>
<td>Foundations (7 hours minimum) (FNRQ)</td>
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<tr>
<td>MAT 114 **see 2nd page</td>
<td>3</td>
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<tr>
<td>Choose 1 of the following:</td>
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<tr>
<td>ENG 105</td>
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<tr>
<td>ENG 101 and ENG 102 **see 2nd page</td>
<td>6</td>
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</tr>
</tbody>
</table>

### Distribution Requirement (25 hours)

- Science (7 hours) (at least one must be a LS course)
- Aesthetic & Humanistic Inquiry (6 hours) (AHI)
- Cultural Understanding (6 hours) (CU)
- Social and Political Worlds (6 hours) (SPW)

### Liberal Studies Elective (3 hours)

**TOTAL HOURS** (35 hours minimum)

## Diversity Course Requirement

### Global diversity course:

### U.S. Ethnic diversity course:

## Degree Summary

- Total Liberal Studies Hours
- Total BS-BS Curriculum Hours
- Total Elective Hours
- **GRAND TOTAL** (120 hours minimum)

## Other Graduation Requirements

- Total Community College Hours (64max)
- Total NAU Hours (30 hours/18 upper division)
- Total University Hours (36 hour minimum)
- Total Upper Division Hours (30 hour minimum)
- NAU Cumulative GPA (2.0 minimum)
- Combined
- Specialization/Concentration/Communication Skills- C

## Transfer Summary

<table>
<thead>
<tr>
<th>INSTITUTION</th>
<th>ABBREVIATION</th>
<th>HOURS</th>
</tr>
</thead>
</table>

## Communication Skills (24 hours)

1. **See 2nd Page**

2. Oral Communication (6 hours) (1 Course MUST be Upper Division)
   - Choose 1 Class from List A AND 1 Class from List B
   - List A: SC 111, 311, 312, 314, 315, 318
   - List B: COM 200, SC 271, 321, 323, 351, 361, 365, 424, 472, 475, 477

## Upper Division

3. Science Requirement (12 hours) Choose from the following: ANT 101, 102, 104, BIO 301, 302, PSY 230, STA 270, CJ 355, ESE 380, HS 333, SOC 255W, 365, PAS 355, 356, POS 303 or courses with a BIO, PHY, AST, GLG, ENV, or CHM prefix (6 hours MUST be Upper Division)

**Electives (if Needed to Reach 120 hours)**

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SST BIS Handbook Fall 2012 25
Bachelor of Science in Interdisciplinary Studies
Specialization: Speech-Language Sciences & Technology
2010-2011 Undergraduate Catalog

I. LIBERAL STUDIES (35 hours minimum)
You must complete 35 hours of Liberal Studies credit (university colloquium, foundation studies and discipline studies). If you transfer to NAU from an Arizona community college and your transcript certifies that you completed either an Arizona General Education Curriculum (AGEC) or a Transfer General Education Core Curriculum (TGEC), you have satisfied NAU’s liberal studies requirements.

    Foundations (7 hours minimum)
    ENG 105 Critical Reading and Writing OR ENG 101 (3 hours) and ENG 102 (3 hours) 4 - 6 hours
    MAT 114 - Quantitative Reasoning 3 hours
    **Placement test may be required. Prerequisites may be necessary before student is eligible for MAT 114.

Distribution Requirement (25 hours minimum)
Science (At least one course must be a Lab Science Course) 7 hours
Aesthetic and Humanistic Inquiry 6 hours
Cultural Understanding 6 hours
Social and Political Worlds 6 hours

Liberal Studies Elective (any liberal studies course) 3 hours

II. DIVERSITY COURSE REQUIREMENTS
The requirement is for all NAU baccalaureate students who graduate under the provisions of the 2011-2012 NAU Undergraduate Catalog and subsequent catalogs:
- 3 units of course-work that meet the criteria for the US Ethnic Diversity requirement (see list of approved courses)
- 3 units of course-work that meet the criteria for the Global Diversity requirement (see list of approved courses)
- These requirements may be fulfilled in any part of your program of program of study.

III. SPEECH-LANGUAGE SCIENCES & TECHNOLOGY CURRICULUM

SPECIALIZATION (27 HOURS)
SST 202: Phonetics (also fulfills CU) 3 hours
SST 251: Anatomy and Physiology of Speech and Language 3 hours
SST 350: Communication Development in Children 3 hours
SST 375: Speech-Language Sciences (pre-requisite: SST 202 & SST 251) 3 hours
SST 376: Hearing Science 3 hours
SST 405: Neurological Foundations of Speech, Language, and Hearing (pre-requisite: SST 251) 3 hours
SST 456: Survey of Audiology (pre-requisite: SST 376) 3 hours
HHS 300W: Applied Ethics in Healthcare (ENG 101/102 and Jr. standing) 3 hours
SST 455C: Survey of Speech Pathology (pre-requisite: SST 202, SST 251, SST 350, SST 375) 3 hours

IV. CONCENTRATION, MINOR or CERTIFICATE - 15 HOURS
9 of the 15 credits MUST be from NAU, 6 MUST be Upper Division
***Please request the attachment for classes that qualify under this section***
1. Ethical Reasoning (3 units)
2. Creative Inquiry (3 units)
3. Scientific Reasoning (3 units)
4. Changing Worlds (3 units)
5. Cultural Perspectives (3 units)

V. COMMUNICATION SKILLS (24 HOURS)
1. COMPUTER LITERACY (6 HOURS)
   CIS 120: Intro to Computer Information Systems (also fulfills SAS) 3 hours
   3 additional units in computer literacy with a concentration on word processing, spreadsheet use and database management (must be taken within 10 years of enrollment at NAU) 3 hours
   **CIS 120 and the additional CIS class are not offered online at NAU. Please work with your advisor for options available.**
2. **ORAL COMMUNICATION (6 HOURS)**
   3 OF THE 6 HOURS MUST BE UPPER DIVISION
Choose 1 Class from List A AND 1 Class from List B

**List A:**
- SC 111: Fundamentals of Public Speaking (also fulfills SPW) 3 hours
- SC 311: Advanced Presentation Techniques 3 hours
- SC 312: Methods of Interviewing 3 hours
- SC 314: Communicating in Instructional Environments 3 hours
- SC 315: Business and Professional Speaking 3 hours
- SC 318: Oral Argument and Law (also fulfills SPW) 3 hours

**List B:**
- COM 200: Basic Communication Theory (prerequisite: ENG 102 or ENG 101 and ENG 102) 3 hours
- SC 271: Group Communication 3 hours
- SC 321: Nonverbal Communication 3 hours
- SC 323: Intercultural Communication (also fulfills CU) 3 hours
- SC 351: Interpersonal Communication 3 hours
- SC 361: Persuasion 3 hours
- SC 365: Communication on Contemporary Affairs (also fulfill SPW) 3 hours
- SC 424: Gender and Communication (prereq: Junior level status) 3 hours
- SC 472: Organizational Communication (prereq: Junior level status) 3 hours
- SC 475: Health Communication 3 hours
- SC 477: Mediation and Conflict management (prereq: Junior level status) 3 hours

3. **SCIENCE REQUIREMENT (12 HOURS)**
6 OF THE 12 HOURS MUST BE UPPER DIVISION
- ANT 101: HUMAN KIND EMERGING 3 hours
- ANT 102: HUMAN KIND EMERGING HONORS 3 hours
- ANT 104: LOST TRIBES AND BURIED CITIES 3 hours
- BIO 301: SCIENCE, RELIGION, AND REALITY 3 hours
- BIO 302: RELEVANCE OF SCIENCE 3 hours
- PSY 230: INTRODUCTION TO STATISTICS IN PSYCHOLOGY 4 hours
- STA 270: APPLIED STATISTICS 3 hours
- CJ 355: RESEARCH METHODS IN CRIMINAL JUSTICE 3 hours
- ECI 497C: INDEPENDENT STUDY 3 hours
- ESE 380: INTRODUCTION TO EXCEPTIONAL CHILDREN 3 hours
- HS 333: Principles of Epidemiology (prerequisite HS 300) 3 hours
- SOC 355W: RESEARCH METHODS 3 hours
- SOC 360: SOCIAL STATISTICS 3 hours
- PAS 353: RESEARCH METHODS IN SOCIAL SCIENCES 3 hours
- PAS 356: APPLIED PROGRAM PLANNING AND EVALUATION 3 hours
- POS 503: SOCIAL SCIENCE RESEARCH 3 hours
- OR ANY BIO, PHY, AST, GLG, ENV, or CHM course not listed above

VI. NAU ELECTIVES TO TOTAL 120 HOURS
Northern Arizona University
Speech-Language Sciences and Technology
BIS Student Handbook

Acknowledgement Statement

This is to acknowledge that I,

________________________________________

(Please print name)

have reviewed and understand the aforementioned handbook and agree to abide by the policies and procedures of this undergraduate degree program as outlined in the handbook.

________________________________________  __________________________
Student Signature                      Date

This form is to be signed by the student and placed in the student’s SST Academic file.
Northern Arizona University  
Speech-Language Sciences and Technology  
BIS Declaration

Name: ________________________________

SS# or NAU ID: ________________________________

Address: ____________________________________

Phone Number: ________________________________

Email: _______________________________________

I accept responsibility for knowing and meeting all requirements for the Bachelor's Degree in Interdisciplinary Studies with emphasis in Speech-Language Sciences and Technology listed in the NAU undergraduate catalog under which I was admitted.

Signature: ___________________________ Date: _____________

Please submit this form to your CHHS advisor.