The Neuroscience of Communication concentration provides and interdisciplinary understanding of the neurological systems that underlie human communication. Students will study the biological basis of communication in order to understand brain-behavior correlates of typical and disordered speech, language, and hearing function. In addition, students will benefit from faculty research that utilizes innovative technologies to study the structure and function of the sensory-motor systems that underlie human communication abilities.

This concentration is intended to help prepare students for health and science-related careers, including medicine and neuroscience. In addition, undergraduates interested in pursuing careers as an audiologist or speech-language pathologist can combine this concentration with pre-certification requirements.

for the degree of Bachelor of Science Major in Speech & Hearing Science, Neuroscience of Communication Concentration

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Information listed in this catalog is current as of 03/2019
Electives

All students are encouraged to take electives in and outside the department that will count towards the 128 required hours for graduation (the total number of electives students may take may vary with each individual). Students are encouraged to select electives that will complement their areas of interest and future goals. Areas listed below are only a sampling of possibilities; they are not to be considered as requirements and students are not limited to these choices. All students are responsible for addressing course pre-requisites and course availability may vary.

Anthropology (ANTH), Communications (CMN), Kinesiology and Community Health (KIN, CHLH), Educational Organization and Leadership (EOL), Curriculum & Instruction (CI), Educational Policy Studies (EPS), Educational Psychology (EPSY), English (ENGL), English as a Second Language (ESL), Gender and Women's Studies (GWS), Human Development and Family Studies (HDFS), Library and Information Science (LIS), Linguistics (LING), Psychology (PSYC), Recreation, Sport, & Tourism (RST), Rehabilitation Counseling (REHB), Special Education (SPED), Sociology (SOC), Social Work (SOCW). Additional areas to explore may include: courses in a foreign language beyond the completion of the University's requirement, as well as additional courses in science, such as Biology (IB, MCB), Physics (PHYS), microcomputer applications (e.g. ACE), and courses in cultural studies.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SHS 280</td>
<td>Communication Neuroscience</td>
<td>3</td>
</tr>
<tr>
<td>SHS 285</td>
<td>(Title of course is: Quantitative Bases in SHS) 1</td>
<td>3</td>
</tr>
<tr>
<td>SHS 389</td>
<td>(Title of course is: Neuroplasticity and Communication)</td>
<td></td>
</tr>
<tr>
<td>SHS 427</td>
<td>Language and the Brain</td>
<td>3 or 4</td>
</tr>
<tr>
<td>SHS 470</td>
<td>Neural Bases Spch Lang</td>
<td>4</td>
</tr>
</tbody>
</table>

Students must also take 6 hours from the following specified electives:

- Any Chemistry or Physics 100-level class 2
- IB 100 Biology in Today’s World 2
- PSYC 204 Intro to Brain and Cognition
- PSYC 216 Child Psych
- or EPSY:Child Dev in Education
- PSYC 230 Perception & Sensory Processes
- PSYC 224 Cognitive Psych
- PSYC 248 Learning and Memory
- SHS 291 Research Lab Experience in SHS 3

| SHS 375 | Comm Partners & Health                  |       |
| SHS 473 | Augmentative & Alt Comm 4               |       |

Total Hours 19-20

1 Approved substitutions include: CHEM 101, CHEM 102 & 103, CHEM 108, PHYS 101, PHYS 140, PHYS 150, or PHYS 193 provided this is not being used to satisfy a university General Education requirement.

2 Provided courses are not used to satisfy a university General Education requirement.

3 Approved for S/U grading only. Must be arranged with individual faculty member.

4 Prerequisite: Senior level in the SHS program or consent of instructor.

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