**SPEECH AND HEARING SCIENCE, BS**

**Neuroscience of Communication Concentration**

The **Neuroscience of Communication** concentration provides and interdisciplinary understanding of the neurological systems that underline 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.

<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>
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<tr>
<td>SHS 427</td>
<td>Language and the Brain</td>
<td>3 or 4</td>
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<tr>
<td>SHS 470</td>
<td>Neural Bases Spch Lang</td>
<td>4</td>
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</tbody>
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**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

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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.