SPPA 4310: Introduction to Neurological Disorders of Communication  
Spring Semester 2015  
Subhash Bhatnagar, Ph.D. subhash.bhatnagar@marquette.edu, 414-288-3390  
Office Hrs: W 10:00-11:00 or by appointment

Learning Objectives  
After completing this class, students should be able to

- Describe the relationship between neuroscience and speech-language pathology;
- Exhibit familiarity with technical neurological terms;
- Discuss the functions of major structures of the brain and spinal cord;
- Describe the functions of cranial nerves;
- Explain the clinical and linguistic characteristics of dementia, aphasia, apraxia, traumatic brain injuries, and dysarthria;
- Explain practical issues related to the assessment of language;
- Discuss the issues related with the brain’s healing power;

Meets ASHA Certification Standards, 9/1/2014:  
Knowledge skills: IV-A, IV-B, IV-C, IV-E

WI-DPI Standards:  
Satisfactory completion of this course is intended to assist students in meeting the following requirements DPI WI Licensure:  
Standard 1e Typical and Atypical Speech, Language and Hearing.

Textbooks Recommended  
Since a diversity of material is covered in the class, there is not a single primary book that you must purchase. However, you are encouraged to buy the following books:

- **Primary Book**  

- **Secondary Books**  


- **Author**  
  Doidge, Norman
Title: The brain that changes itself: stories of personal triumph from the frontiers of brain science / Norman Doidge

Author: Bhupendra Khatri
Title: Healing the Soul.

Password: NEURO

All the references are placed on reserve in the Rayner Library.

Requirements for Grading:
1. Presentation of therapy techniques for an assigned communicative disorder.
   **15 points**
2. Scoring a diagnostic test battery (related to adult communication disorders); Summary of your observations.
   **5 points**
3. Presentation of a chapters from:
   Healing the Soul
   **15 points**
4. Final paper: 2 page paper assessing your learning, expectations, impact of learning on your preparedness, and suggestions for the future
   **5 Points**
5. Two sectional examinations:
   **60 points (30+30)**

Grading is based on the effectiveness of the presentation.

Grading Criterion:
Grading is based on the effectiveness of the presentations and the paper.

<table>
<thead>
<tr>
<th>Grade</th>
<th>Range 1</th>
<th>Grade</th>
<th>Range 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>93-100</td>
<td>C</td>
<td>70-76</td>
</tr>
<tr>
<td>AB</td>
<td>88-92</td>
<td>CD</td>
<td>65-69</td>
</tr>
<tr>
<td>B</td>
<td>82-87</td>
<td>D</td>
<td>60-64</td>
</tr>
<tr>
<td>BC</td>
<td>77-81</td>
<td>Fail</td>
<td>&lt; 60</td>
</tr>
</tbody>
</table>

Attendance Policy
Attendance at all class meetings is expected. On-time attendance is also an important component of professional behavior. Absences prevent the student from obtaining the full benefit of the course. The responsibility for catching up on information missed in the class lies with the student. Examinations missed because of an absence cannot be made up unless an official excuse is
presented, and this examination can be taken only during the final examination week.
Also see below the Departmental Policy on acceptable absences:

<table>
<thead>
<tr>
<th>Acceptable Anticipated Absences</th>
</tr>
</thead>
<tbody>
<tr>
<td>• The student is away from campus representing an official university function, e.g., participating in a professional meeting, as part of a judging team, or athletic team.</td>
</tr>
<tr>
<td>• Required court attendance as certified by the Clerk of Court</td>
</tr>
<tr>
<td>• Religious observances when certified by a letter from the student's parent(s) or religious leader.</td>
</tr>
<tr>
<td>• Required military duty as certified by the commanding officer.</td>
</tr>
</tbody>
</table>

Acceptable emergency absences:

• Illness or injury when certified by an attending physician, dentist, or nurse. The certification should show the date service was provided to the student but should not describe the nature of that service.

• Death or serious illness in the immediate family (parents, step-parents, siblings, spouse, children, step-children, foster children, in-laws, sibling in-laws, grandparents, great grandparents, step-great grandparents, grandchildren, aunts, uncles, nieces, and nephews) when certified by a letter from the student's parent(s) or spouse.

DATES TO REMEMBER:
February 19 Examination One (sectional)
May 7 Examination two (sectional)

<table>
<thead>
<tr>
<th>Date</th>
<th>Topic</th>
<th>Assigned Reading</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jan. 13</td>
<td>Orientation</td>
<td>Syllabus</td>
</tr>
<tr>
<td></td>
<td><strong>Section One</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Basic Concepts</strong></td>
<td></td>
</tr>
<tr>
<td>Jan. 15, 20, 22</td>
<td>Neurological Concepts and Principles</td>
<td>SB Chapter 1 Class Notes</td>
</tr>
<tr>
<td>Jan. 27, 29</td>
<td>Functional Anatomy of the Brain</td>
<td>SB Chapter 1-2 Class Notes</td>
</tr>
<tr>
<td>Feb. 3, 5, 10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Feb 12-17</td>
<td>Functional Organization of the Brain</td>
<td>SB Ch 19 (406 – 408)</td>
</tr>
</tbody>
</table>
February 19
EXAM ONE

Section Two
Disorders of Communication

Feb. 24-26
Adult Language Disorders
Canning, Cawley, D’Astice
HG Ch. 3, 41-62, 63, 86

March 3-5
Right Non-Dominant Hemisphere
Good, Graceffa, Jarman
HG Ch. 4, 105-14: 115-124,

March 10-12
Spring Break

March 17-19
Traumatic Brain Injuries
Johnson, Kadakia, Kure
HG Ch. 6, 163-73, 173, 184,

March 24-26
Dementia
O’Connor, Reilly
HG Ch 5, 129-142,

March 31
Dysarthria
Schafer, Steinhilber
HG Ch 8, 205-228, 229-248

April 7
Easter Vacation

Section Three
Presentations

Healing the Soul by Khatri

April 9, 2014

- The Power of Positive Thinking
  - Subhash Bhatnagar
  - Unfinished Business
  - Katherine Canning
  - Grace Cawley
- The Will to Live
  - Christina D’Astice
  - Hunter Good

April 14

- The Lost Art of Touch
  - Natalie Graceffa
  - Carli Jarman
- Someday Never Comes
  - Haley Johnson
  - Kruti Kadakia
- Paralyzed
  - Giuliana Kure
April 16
- Breaking the Silence Page 147
  o Valerie Reilly
  o Hannah Schafer
- Being in the Zone Page 175
  o Sarah Steinhilber
  o Katherine Canning
- Destiny Page 193
  o Grace Cawley
  o Christina D’Astice

April 21
- Emotional Closure Page 21
  o Hunter Good
  o Natalie Graceffa
- Crossing the Boundary Page 231
  o Carli Jarman
  o Haley Johnson
- Fall Seven Times, Get Up Eight Page 243
  o Kruti Kadakia
  o Giuliana Kure

April 23
- Caregivers Page 267
  o Hannah O’Connor
  o Valerie Reilly
- Practicing Medicine in the Digital Age Page 295
  o Hannah Schafer
  o Sarah Steinhilber
- Brain Dead Page 315

April 28 Bhupendra Khatri, MD.
  Director,
  The Regional MS Center
  Center for Neurological Disorders
  3237 S. 16th Street Milwaukee, WI 53215

April 30 Aphasia Battery Administration