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## DEPARTMENT OF EXERCISE SCIENCE

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<http://www.umes.edu/SPHP/>

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**Dr. James E. Heimdal, Chairperson**

### MISSION

The Mission of the Department of Exercise Science is to prepare students in the field of Exercise Science. The Exercise Science major is designed to satisfy the professional needs of the students desiring an in-depth study of the impact of exercise and sport on the mental and physiological development of human beings.

### OBJECTIVES

The objectives of the programs offered in Exercise Science are to:

1. Offer instruction which reflects the Mission, Goals and Objectives of the University of Maryland Eastern Shore.
2. Meet the academic requirements established by the Department of Exercise Science and the University of Maryland Eastern Shore.
3. Provide courses and learning experiences which prepare students, including ethnic minorities, for employment and leadership positions in health/fitness, exercise science, allied health and the sport industry.
4. Provide an intellectual environment designed to facilitate students' academic growth, intellectual curiosity, research capacity and professional creativity.
5. Provide opportunities for students to acquire and to effectively utilize technology of the twenty-first century as working professionals in the health and exercise science professions.
6. Prepare students for graduate school and continued professional development.
7. Obtain disciplinary accreditation by meeting the Professional Standards required by the Commission on Accreditation of the Allied Health Education Programs (CAAHEP) for Allied Health Education Programs and by the National Strength and Conditioning Association (NSCA).
8. Provide course offerings and professional programs to the University and the general community.

### DEGREES OFFERED

Bachelor of Science – Exercise Science

### GENERAL PROGRAM REQUIREMENTS

The purpose of the Exercise Science Program is to develop competent professionals in the field of exercise science and to contribute to graduate entry –level studies by providing quality academic preparation that incorporates both classroom and supervised practical experiences. The admission of students to the undergraduate program in the Department of Exercise Science is based upon the general requirements of the University. Students must complete a total of 54 hours of Required Major Courses.

### DEPARTMENTAL REQUIREMENTS

Exercise Science majors must complete a minimum of 120 credit hours of University courses. The program offers two Options: Clinical and Health/Fitness. Each Option possesses its own criteria for the Exercise Science degree.

Clinical Option - Majors must complete a minimum of 120 credit hours of University courses. Included in the 120 hours are a minimum of 42 credit hours of General Education Requirements; 28 credit hours of support courses and 50 credit hours of Program and Professional courses.

Health/Fitness Option - Majors must complete a minimum of 120 credit hours of University courses. Included in the 120 hours are a minimum of 42 credit hours of General Education Requirements; 24 credit hours of Support Courses and 54 credit hours of Program and Professional courses.

Students must select nine (9) credits total of GEN ED CURR AREA I: Arts and Humanities. Students must select from the following courses:

ARRS 101<sup>1</sup> or ENGL 203 GEN ED CURR AREA I:B.  
MUSI 101<sup>1</sup>

### **CAREER OPPORTUNITIES**

The major in Exercise Science prepares graduates to work as exercise specialist and/or within the management of community health/fitness programs, hospitality/wellness programs, message therapy, sport medicine and the sport industry. Many of our students delay entering their careers until completion of a graduate degree in Exercise Science.

### **CLINICAL OPTION**

The Clinical Option prepares students seeking careers in physical therapy and occupational therapy. It also prepares graduates for careers in related areas such as message therapy, chiropractic, cardiac rehabilitation, sports medicine and physician assistant.

### **DEPARTMENTAL REQUIREMENTS**

Students must complete a minimum of 120 credit hours of University courses. Included in the 120 hours are a minimum of 42 credit hours of General Education Requirements; 28 credit hours credit hours of Support Courses and 50 credit hours of Program and Professional courses.

#### **COMMON REQUIRED COURSES**

|          |          |          |          |
|----------|----------|----------|----------|
| EXSC 103 | EXSC 121 | EXSC 151 | EXSC 341 |
| EXSC 104 | EXSC 122 | EXSC 163 |          |
| EXSC 105 |          |          |          |
| EXSC 107 |          |          |          |

#### **REQUIRED MAJOR COURSES**

|          |          |          |          |
|----------|----------|----------|----------|
| EXSC 200 | EXSC 301 | EXSC 355 | EXSC 445 |
| EXSC 202 | EXSC 302 | EXSC 360 | EXSC 455 |
|          | EXSC 311 | EXSC 365 | EXSC 464 |
|          | EXSC 312 | EXSC 382 | EXSC 475 |
|          | EXSC 332 |          | EXSC 490 |
|          | EXSC 333 |          |          |
|          | EXSC 355 |          |          |
|          | EXSC 360 |          |          |
|          | EXSC 365 |          |          |
|          | EXSC 382 |          |          |

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<sup>1</sup>Students must select either ARTS 101 or MUSI 101.

**CURRICULUM GUIDE FOR EXERCISE SCIENCE  
(CLINICAL OPTION)**

**FRESHMAN YEAR**

| <i>First Semester</i> | <i>Credit</i> | <i>Second Semester</i> | <i>Credit</i> |
|-----------------------|---------------|------------------------|---------------|
| BIOL 111              | 3             | BIOL 112               | 3             |
| BIOL 113              | 1             | BIOL 114               | 1             |
| ENGL 101              | 3             | ENGL 102               | 3             |
| EXSC 100              | 1             | EXSC 111 <sup>1</sup>  | 3             |
| MATH 110              | 3             | EXSC 200               | 3             |
| SOCI 101              | 3             | PSYC 200               | 3             |
| ARTS 101 or           |               | ENGL 002               | <u>0</u>      |
| MUSI 101              | <u>3</u>      |                        | 16            |
|                       | 17            |                        |               |

**SOPHOMORE YEAR**

| <i>First Semester</i>           | <i>Credit</i> | <i>Second Semester</i> | <i>Credit</i> |
|---------------------------------|---------------|------------------------|---------------|
| BIOL 231                        | 3             | BIOL 232               | 3             |
| BIOL 233                        | 1             | BIOL 234               | 1             |
| ENGL 203                        | 3             | ENGL 305               | 3             |
| EXSC 311                        | 3             | EXSC 202               | 3             |
| EXSC 312                        | 1             | EXSC 301               | <u>3</u>      |
| EXSC 302                        | 3             |                        | 13            |
| GEN ED CURR AREA I <sup>2</sup> | <u>3</u>      |                        |               |
|                                 | 17            |                        |               |

**JUNIOR YEAR**

| <i>First Semester</i> | <i>Credit</i> | <i>Second Semester</i> | <i>Credit</i> |
|-----------------------|---------------|------------------------|---------------|
| CHEM 111              | 3             | PHYS 122               | 3             |
| CHEM 113              | 1             | PHYS 124               | 1             |
| PHYS 121              | 3             | CHEM 112               | 3             |
| PHYS 123              | 1             | CHEM 114               | 1             |
| EXSC 332              | 3             | EXSC 355               | 3             |
| EXSC 333              | 1             | EXSC 360               | 3             |
| EXSC 382              | <u>3</u>      | EXSC 445               | <u>3</u>      |
|                       | 15            |                        | 17            |

**SENIOR YEAR**

| <i>First Semester</i> | <i>Credit</i> | <i>Second Semester</i> | <i>Credit</i> |
|-----------------------|---------------|------------------------|---------------|
| BIOL 301              | 3             | EXSC 464               | 3             |
| BIOL 303              | 1             | EXSC 365               | 3             |
| EXSC 455              | 3             | EXSC 490 <sup>3</sup>  | <u>6</u>      |
| EXSC 475              | 3             |                        | 12            |
| PSYC 305              | <u>3</u>      |                        |               |
|                       | 13            |                        |               |

Total Credit Hours: 120

<sup>1</sup>EXSC 111 cannot be repeated for credit.

<sup>2</sup>Students must select course from GEN ED CURR AREA I:B

<sup>3</sup>Students must complete 180 hours of Internship.

### **HEALTH/FITNESS OPTION**

The Health/Fitness Option prepares graduates to work as exercise specialist and/or within the management of community health/fitness programs, hospital/wellness programs, message therapy, sport medicine and the sport industry. Many of our students delay entering their careers until completion of a graduate degree in exercise science or sport management. Students must complete a total of 54 hours of Required Major Courses.

### **DEPARTMENTAL REQUIREMENTS**

Health/Fitness Option - Majors must complete a minimum of 120 credit hours of University courses. Included in the 120 hours are a minimum of 42 credit hours of General Education Requirements; 24 credit hours of Support Courses and 54 credit hours of Program and Professional courses.

### **REQUIRED MAJOR COURSES**

|          |          |          |          |
|----------|----------|----------|----------|
| EXSC 200 | EXSC 301 | EXSC 352 | EXSC 445 |
| EXSC 202 | EXSC 302 | EXSC 355 | EXSC 455 |
| EXSC 222 | EXSC 311 | EXSC 360 | EXSC 464 |
|          | EXSC 312 | EXSC 365 | EXSC 475 |
|          | EXSC 332 | EXSC 382 | EXSC 490 |
|          | EXSC 333 |          |          |

**CURRICULUM GUIDE FOR EXERCISE SCIENCE  
(HEALTH/FITNESS OPTION)**

**FRESHMAN YEAR**

| <i>First Semester</i>   | <i>Credit</i> | <i>Second Semester</i> | <i>Credit</i> |
|-------------------------|---------------|------------------------|---------------|
| BIOL 111                | 3             | BUAD 132               | 3             |
| BIOL 113                | 1             | ENGL 102               | 3             |
| ENGL 101                | 3             | EXSC 111 <sup>1</sup>  | 3             |
| EXSC 100                | 1             | EXSC 200               | 3             |
| MATH 109                | 3             | PSYC 200               | 3             |
| SOCI 101                | 3             | ENGL 001               | <u>0</u>      |
| ARTS 101 or<br>MUSI 101 | <u>3</u>      |                        | 15            |
|                         | 17            |                        |               |

**SOPHOMORE YEAR**

| <i>First Semester</i>           | <i>Credit</i> | <i>Second Semester</i> | <i>Credit</i> |
|---------------------------------|---------------|------------------------|---------------|
| BIOL 231                        | 3             | BIOL 232               | 3             |
| BIOL 233                        | 1             | BIOL 234               | 1             |
| ENGL 203                        | 3             | BUED 212               | 3             |
| EXSC 311                        | 3             | EXSC 202               | 3             |
| EXSC 312                        | 1             | EXSC 301               | 3             |
| EXSC 302                        | 3             | EXSC 222               | <u>1</u>      |
| GEN ED CURR AREA I <sup>2</sup> | <u>3</u>      |                        | 14            |
|                                 | 17            |                        |               |

**JUNIOR YEAR**

| <i>First Semester</i> | <i>Credit</i> | <i>Second Semester</i> | <i>Credit</i> |
|-----------------------|---------------|------------------------|---------------|
| CHEM 111              | 3             | BUAD 213               | 3             |
| CHEM 113              | 1             | ACCT 201               | 3             |
| EXSC 332              | 3             | EXSC 355               | 3             |
| EXSC 333              | 1             | EXSC 445               | 3             |
| EXSC 352              | 3             | EXSC 360               | <u>3</u>      |
| EXSC 382              | <u>3</u>      |                        | 15            |
|                       | 14            |                        |               |

**SENIOR YEAR**

| <i>First Semester</i> | <i>Credit</i> | <i>Second Semester</i> | <i>Credit</i> |
|-----------------------|---------------|------------------------|---------------|
| ENGL 305              | 3             | EXSC 464               | 3             |
| PHYS 101              | 3             | EXSC 365               | 3             |
| PHYS 103              | 1             | EXSC 490 <sup>3</sup>  | <u>6</u>      |
| BUAD 304              | 3             |                        | 12            |
| EXSC 455              | 3             |                        |               |
| EXSC 475              | <u>3</u>      |                        |               |
|                       | 16            |                        |               |

Total Credit Hours: 120

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<sup>1</sup>EXSC 111 cannot be repeated for credit.

<sup>2</sup>Students must select course from GEN ED CURR AREA I:B

<sup>3</sup>Students must complete 180 hours of Internship.

## COURSE DESCRIPTION IN EXERCISE SCIENCE

- EXSC 100      First Year Experience Seminar      Credit 1**  
The course provides an opportunity for students to make a seamless transition from high school to college. Essential skills for transition will be explored and discussed. This course will assist students in developing cognitive skills and in adjusting personally and socially to the college environment. Additionally this course shall facilitate self-awareness and interpersonal communication. Required of all first year students. The course is taken by Exercise Science majors in lieu of GNST 100.
- EXSC 103      Beginning Karate/Self-Defense      Credit 2**  
This course gives students a comprehensive exposure to the fundamental techniques and procedures necessary for competently performing martial arts skills; this exposure includes students' demonstration of physical, mental and psychological skills which are inherent components of martial arts.
- EXSC 104      Women's Health      Credit 3**  
This course is designed to help students understand the changes that have occurred historically in society's attitude toward women and to gain a deeper understanding of their anatomy and physiology. The course helps the student to develop an awareness and become more knowledgeable regarding diseases and health problems that affect women specifically, and learning how to prevent these diseases.
- EXSC 105      Aerobic Dance and Conditioning      Credit 2**  
This course will stress accessing, developing, and maintaining physical fitness through aerobic exercise and dance.
- EXSC 107      Human Sexuality      Credit 2**  
This course provides students with an overview of the many biological, psychological, sociological, and historical dimensions of sexuality in a nonjudgmental tone. The main emphasis will be helping students make responsible decisions that promote healthy sexual behaviors and well-being
- EXSC 111      Personal Health and Fitness      Credit 3**  
This course studies the principles and practices that affect human health. Emphasis is on physical fitness, stress management, nutrition, and weight control with specific personalized techniques for optimizing health. The course can be repeated for credit. Students should select the course they desire as indicated by the topic. Satisfies GEN CURR AREA VI.
- EXSC 121      Beginning Swimming      Credit 2**  
Basic skills of swimming are taught in this class; including adjustment to the water, buoyancy, floating, propulsion through the water involving coordination of arms and legs in stroking, combined with breathing and safety.
- EXSC 151      Beginning Golf      Credit 2**  
This course is designed to provide students with the skills, rules, techniques and terminology of golf.
- EXSC 200      Introduction to Exercise Science      Credit 3**  
This course is an overview of the field of Exercise Science; its development, professional activities and sub-disciplines.
- EXSC 202      Personal and Community Health      Credit 3**  
Designed to develop attitudes and practices which contribute to better individual and group health. Emphasis is placed upon major health problems of early adulthood.
- EXSC 222      Intermediate Swimming      Credit 1**  
This course is a continuation of techniques of elementary swimming with emphasis on the development of skills in the basic or standard swimming strokes.
- EXSC 301      Measurements in Exercise Science      Credit 3**  
This course studies the use and interpretation of basic statistical techniques in the application of Exercise Science. Including measures of central tendency, variability, graphic representation, large sample, error theory and simple correlation analysis as applied particularly in evaluation of test material.
- EXSC 302      Sport Medicine and First Aid      Credit 3**  
Prevention, treatment and rehabilitation of athletic injuries and First Aid procedures are studied in the course
- EXSC 311      Kinesiology      Credit 3**  
This course is an analysis of movement based on a knowledge of anatomy and physiology as applied to the function of body mechanics.

|   |   |                   |
|---|---|-------------------|
| <b>EXSC 312</b>   | <b>Kinesiology Lab</b>                                    | <b>Credit 1</b>   |
| This course is the laboratory component of EXSC 311--Applied Anatomy and Kinesiology.   |   |                   |
| <b>EXSC 332</b>   | <b>Exercise Physiology</b>                                | <b>Credit 3</b>   |
| Basic human physiology with emphasis on the physiological changes and residues of exercise are studied in this course. It is to be concurrent with EXSC 333. Prerequisite: BIOL 232.  |   |                   |
| <b>EXSC 333</b>   | <b>Exercise Physiology Lab</b>                            | <b>Credit 1</b>   |
| The Exercise Physiology laboratory experience provides students with an opportunity to measure and evaluate selected physiological parameters.  |   |                   |
| <b>EXSC 341</b>   | <b>First Aid</b>  | <b>Credit 2</b>   |
| Lectures, discussions, and practical demonstrations of American Red Cross methods in First Aid are studied.   |   |                   |
| <b>EXSC 352</b>   | <b>Exercise and Sport Physiology</b>                      | <b>Credit 3</b>   |
| This course is an in-depth study, comparison and analysis of human behavior while participating in sport and physical activity.   |   |                   |
| <b>EXSC 355</b>   | <b>Exercise Testing and Prescription</b>                  | <b>Credit 3</b>   |
| This course provides an understanding of individualized exercise prescription design in programs to develop and maintain physical fitness through testing and re-evaluation strategies. Prerequisite: EXSC 311.   |   |                   |
| <b>EXSC 360</b>   | <b>Exercise and Sport Nutrition</b>                       | <b>Credit 3</b>   |
| This course provides students with a key to understanding interactions between nutrition and exercise concepts as well as practical applications.   |   |                   |
| <b>EXSC 365</b>   | <b>Contemporary Issues in Exercise Science and Sports</b> | <b>Credit 3</b>   |
| Students will have opportunities to investigate and learn first-hand information about developing issues in Exercise Science. Examples of the issues include: youth fitness, youth sports, sports for the aged, resistance training for prepubescent athletes, demographics of aging and physiology of aging.   |   |                   |
| <b>EXSC 382</b>   | <b>Socio-Cultural Analysis of Sports</b>                  | <b>Credit 3</b>   |
| This course is an analyses of sports and exercise in social-cultural contexts. Topics include professional sports, intercollegiate sports, youth sports, violence in sports, gender & sports, ethnicity and sports, and media and sports.   |   |                   |
| <b>EXSC 445</b>   | <b>Health Aspects of Aging</b>                            | <b>Credit 3</b>   |
| This course provides an understanding of the health aspects of aging as it pertains to the biological, physiological, psychological and sociological factors in mature adults.  |   |                   |
| <b>EXSC 455</b>   | <b>Health Fitness Management</b>                          | <b>Credit 3</b>   |
| This course is an in-depth study of Allied Health Facilities design and management. Practical experiences in operational procedures, marketing, analyst budgeting and public safety issues will be discussed.   |   |                   |
| <b>EXSC 464</b>   | <b>Adult Health Fitness Programming</b>                   | <b>Credit 3</b>   |
| This course is designed to instruct individuals in implementation of health fitness programs and management of the various facilities, which includes fitness management.   |   |                   |
| <b>EXSC 475</b>   | <b>Advanced Strength and Conditioning</b>                 | <b>Credit 3</b>   |
| Procedures to strengthen and condition individuals in aerobic and anaerobic activities will be discussed. Exercise models, performance evaluations, exercise equipment, training ethics, and professional development are discussed.  |   |                   |
| <b>EXSC 490</b>   | <b>Internship in Exercise Science</b>                     | <b>Credit 6</b>   |
| A structured off-campus learning experiences is designed to provide students with a terminal professional experience that permits first-hand, direct practical and professional experiences in Exercise Science. Prerequisite: Senior status with approval of Department Chairperson. Student may not exceed 12 semester hours during the semester in which they complete their professional internship experience. |   |                   |
| <b>EXSC 499</b>   | <b>Independent Study in Exercise Science</b>              | <b>Credit 1-3</b> |
| This course will provide senior students with opportunities to engage in in-depth-study of any professional area or related areas germane to Exercise Science. Prerequisite: Senior or Junior academic standing and permission of the Department Chairperson.   |   |                   |

**DIRECTORY OF FACULTY**

**Hall, Kirkland** ..... **Assistant Professor**  
B.S., University of Maryland Eastern Shore; M.A., Ohio State University

**Heimdal, James** ..... **Associate Professor and Chairperson**  
B.S., Tulane University; M.Ed., University of New Orleans; Ph.D., University of Southern Mississippi

**Nelson, Beatrice**..... **Lecturer**  
B.S., St. Augustine College; M.A., Florida A&M University



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## DEPARTMENT OF PHYSICIAN ASSISTANT

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<http://www.umes.edu/SHP/>

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**Mrs. Darlene L. Jackson-Bowen, Chairperson**

### MISSION

As a component of an 1890 Land Grant University, the UMES Physician Assistant Department is committed to providing educational opportunity to all qualified students, particularly those from diverse, medically underserved and under-represented populations, who aspire to become Physician Assistants.

### OBJECTIVES

The objectives of the Physician Assistant program are to:

1. Offer a didactic and clinical curriculum to educate Physician Assistant students to perform evaluative, diagnostic, therapeutic, preventive, and health maintenance services to diverse communities and populations.
2. Prepare graduates to provide compassionate quality health care with the direction and responsible supervision of a Doctor of Medicine or Osteopathy.
3. Prepare students to analyze and critically interpret information and to formulate appropriate clinical decisions;
4. Expose students to the breadth and depth of academic knowledge and experiences necessary to achieve the mastery of skills and techniques as a physician assistant.
5. Develop and support a cadre of competent faculty, staff, students and alumni dedicated to excellence in scholarly productivity, research, and community service that will provide solutions to the challenging health care issues which impact local, national and international communities.

### DEGREES OFFERED

Bachelor of Science - Physician Assistant

### GENERAL PROGRAM REQUIREMENTS

The admission of students to the undergraduate programs in the Department of Physician Assistant is based upon the general admission requirements of the University.

Admission into the Professional Phase of Physician Assistant requires a separate application. Interested applicants must complete the following:

1. Submit a UMES Physician Assistant Program application that can be located at [www.umes.edu/pa](http://www.umes.edu/pa).
2. Submit a 3-5 page autobiography.
3. Submit a 1-3 page essay: "PA as a career choice".
4. Submit two Official Transcripts—submit one copy to the Office of the Registrar and submit the second to the Physician Assistant Department.

Incomplete applications will not be considered.

### DEPARTMENTAL REQUIREMENTS

The Physician Assistant Department requires that all students maintain at least a "C" in each didactic and clinical course, a 2.5 GPA in the program core, program electives, general education and supportive course requirements. Students entering the professional program are required to meet the 3.0 cumulative GPA, in addition to a 3.0 cumulative GPA in Math and the Natural Sciences, and the physical, mental and social technical standards necessary to become a competent physician assistant. A grade of "B" or better is required for clinical year courses—PHAS 400-418.

### CAREER OPPORTUNITIES

Physician assistants held about 66,000 jobs in 2006. The number of jobs is greater than the number of practicing PAs because some hold two or more jobs. For example, some PAs work with a supervising physician, but also work in another practice, clinic, or hospital. According to the American Academy of Physician Assistants, about 15 percent of actively practicing PAs worked in more than one clinical job concurrently in 2006.

More than half of the jobs for PAs were in the offices of physicians, and about a quarter were in hospitals, public or private. The rest were mostly in outpatient care centers, including health maintenance organizations; the Federal Government; and public or private colleges, universities, and professional schools. A few were self-employed. Employment is expected to grow much faster than the average as health care establishments increasingly use physician assistants to contain costs. Job opportunities for PAs should be good, particularly in rural and inner city clinics, as these settings typically have difficulty attracting physicians.

**Employment Change:** Employment of physician assistants is expected to grow 27 percent from 2006 to 2016, much faster than the average for all occupations. Projected rapid job growth reflects the expansion of health care industries and an emphasis on cost containment, which results in increasing use of PAs by health care establishments.

Physicians and institutions are expected to employ more PAs to provide primary care and to assist with medical and surgical procedures because PAs are cost-effective and productive members of the health care team. Physician assistants can relieve physicians of routine duties and procedures. Telemedicine—using technology to facilitate interactive consultations between physicians and physician assistants—also will expand the use of physician assistants.

Besides working in traditional office-based settings, PAs should find a growing number of jobs in institutional settings such as hospitals, academic medical centers, public clinics, and prisons. PAs also may be needed to augment medical staffing in inpatient teaching hospital settings as the number of hours physician residents are permitted to work is reduced, encouraging hospitals to use PAs to supply some physician resident services.

**Job Prospects:** Job opportunities for PAs should be good, particularly in rural and inner-city clinics because those settings have difficulty attracting physicians. In addition to job openings from employment growth, openings will result from the need to replace physician assistants who retire or leave the occupation permanently during the 2006-16 decade. Opportunities will be best in States that allow PAs a wider scope of practice, such as allowing PAs to prescribe medications.

#### COMMON REQUIRED COURSES

|          |          |          |          |
|----------|----------|----------|----------|
| BIOL 231 | BUED 212 | CHEM 211 | PHAS 411 |
| BIOL 232 | MATH 210 | CHEM 213 | PHAS 412 |
| BIOL 233 |          |          | PHAS 413 |
| BIOL 234 |          |          | PHAS 415 |
| BIOL 301 |          |          | PHAS 416 |
| BIOL 303 |          |          | PHAS 417 |
|          |          |          | PHAS 418 |

#### REQUIRED MAJOR COURSES

|          |                |          |          |
|----------|----------------|----------|----------|
| PHAS 200 | PHAS 300       | PHAS 310 | PHAS 400 |
| PHAS 201 | PHAS 301       | PHAS 311 | PHAS 401 |
|          | PHAS 302       | PHAS 312 | PHAS 402 |
|          | PHAS 303       | PHAS 313 | PHAS 403 |
|          | PHAS 304       | PHAS 314 | PHAS 404 |
|          | PHAS 305       | PHAS 315 | PHAS 405 |
|          | PHAS 306       | PHAS 316 | PHAS 406 |
|          | PHAS 307       | PHAS 317 | PHAS 407 |
|          | PHAS 308       |          | PHAS 408 |
|          | PHAS 309Hybrid |          | PHAS 409 |
|          |                |          | PHAS 410 |

**ELECTIVE SUB-SPECIALITY CLERKSHIPS<sup>1,2</sup>**

|          |          |          |          |
|----------|----------|----------|----------|
| PHAS 411 | PHAS 415 | PHAS 413 | PHAS 417 |
| PHAS 412 | PHAS 416 | PHAS 414 | PHAS 418 |
|          |          |          | PHAS 419 |

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<sup>1</sup>Clerkships may occur in any order. Elective sub-specialty clerkship is to be chosen by the student with assistance and approval of semester hours for five (5) weeks.

<sup>2</sup>A grade of “B” or better is required is required for clinical year courses—PHAS 400-418.

**CURRICULUM GUIDE FOR PHYSICIAN ASSISTANT**

**FRESHMAN YEAR**

| <i>First Semester</i>     | <i>Credit</i> | <i>Second Semester</i> | <i>Credit</i> |
|---------------------------|---------------|------------------------|---------------|
| BIOL 111                  | 3             | GEN ED CURR AREA I     | 3             |
| BIOL 113                  | 1             | BIOL 301               | 3             |
| BUED 212                  | 3             | BIOL 303               | 1             |
| CHEM 111                  | 3             | CHEM 112               | 3             |
| CHEM 113                  | 1             | CHEM 114               | 1             |
| ENGL 101                  | 3             | EXSC 111 <sup>1</sup>  | 3             |
| PHAS 188                  | 1             | ENGL 102               | <u>3</u>      |
| MATH 110 <b>or</b> Higher | <u>3</u>      |                        | 17            |
|                           | 18            |                        |               |

**SOPHOMORE YEAR**

| <i>First Semester</i> | <i>Credit</i> | <i>Second Semester</i>      | <i>Credit</i> |
|-----------------------|---------------|-----------------------------|---------------|
| GEN CURR AREA I       | 3             | BIOL 232                    | 3             |
| BIOL 231              | 3             | BIOL 234                    | 1             |
| BIOL 233              | 1             | MATH 210Hybrid              | 3             |
| CHEM 211              | 3             | ENGL 305/H/Online <b>or</b> |               |
| CHEM 213              | 1             | ENGL 310/H/Online           | 3             |
| ENGL 203              | 3             | PHAS 201                    | 1             |
| SOCI 101              | <u>3</u>      | PHAS 302                    | 3             |
|                       | 17            | PSYC 200                    | <u>3</u>      |
|                       |               |                             | 17            |

**JUNIOR YEAR**

| <i>First Semester</i> | <i>Credit</i> | <i>Second Semester</i> | <i>Credit</i> |
|-----------------------|---------------|------------------------|---------------|
| PHAS 200              | 1             | PHAS 303               | 2             |
| PHAS 300              | 3             | PHAS 304               | 3             |
| PHAS 301              | 3             | PHAS 305               | 3             |
| PHAS 311              | 3             | PHAS 308               | 2             |
| PHAS 312              | 3             | PHAS 313               | 3             |
| PHAS 315              | <u>2</u>      | PHAS 316               | <u>2</u>      |
|                       | 15            |                        | 15            |

| <i>Third Semester<sup>2</sup></i> | <i>Credit</i> |
|-----------------------------------|---------------|
| PHAS 306                          | 3             |
| PHAS 307                          | 3             |
| PHAS 309Hybrid                    | 2             |
| PHAS 310                          | 2             |
| PHAS 314                          | 1             |
| PHAS 317                          | <u>3</u>      |
|                                   | 14            |

**SENIOR YEAR**

| <i>Winter Semester</i> | <i>Credit</i> |
|------------------------|---------------|
| PHAS 400               | <u>4</u>      |
|                        | 4             |
| <i>Spring Semester</i> | <i>Credit</i> |
| PHAS 401               | 4             |
| PHAS 402               | 4             |
| PHAS 403               | 1             |
| PHAS 406               | <u>4</u>      |
|                        | 13            |

<sup>1</sup>EXSC 111 cannot be repeated for credit.

<sup>2</sup>Third Semester in Junior Year indicates the Fall of the next year.

| <i>Summer Session</i> | <i>Credit</i> |
|-----------------------|---------------|
| PHAS 404 <sup>2</sup> | 1             |
| PHAS 407 <sup>2</sup> | 4             |
| PHAS 408 <sup>2</sup> | <u>4</u>      |
|                       | 9             |

| <i>Fall Semester</i>     | <i>Credit</i> |
|--------------------------|---------------|
| PHAS 405 <sup>2</sup>    | 1             |
| PHAS 409 <sup>2</sup>    | 4             |
| PHAS 410 <sup>2</sup>    | 4             |
| PHAS 411-19 <sup>2</sup> | <u>4</u>      |
|                          | 13            |

Total Credit Hours: 152

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<sup>1</sup>Elective Sub-Specialty Clerkships: PHAS 411; PHAS 412; PHAS 413; PHAS 414; PHAS 415; PHAS 416; PHAS 417; PHAS 418. Clerkships may occur in any order; an elective sub-specialty clerkship may be chosen by the student with assistance and approval of the department. Each clerkship is for four (4) semester hours for five (5) weeks.

<sup>2</sup>A grade of “B” or better is required is required for clinical year courses—PHAS 400-418.

## COURSE DESCRIPTIONS IN PHYSICIAN ASSISTANT

- PHAS 188** **Credit 1**  
This course provides an opportunity for students to make a seamless transition from high school to college. Essential skills for transition will be explored and discussed. This course will assist students in developing cognitive skills and will assist them in adjusting personally and socially to the college environment. Additionally, this course shall facilitate self-awareness and interpersonal communication. Requirement for all Freshmen. This course is taken by Pre-Physician Assistant majors in lieu of GNST 100.
- PHAS 200**      **Introduction to Physician Assistant** **Credit 1**  
This course focuses on the history, present practices, and future trends of the profession.
- PHAS 201**      **Medical Terminology/Online** **Credit 1**  
This course is designed in a web-based programmed format to introduce the learner to a systematic approach to mastering medical and scientific vocabulary.
- PHAS 300**      **Advanced Anatomy** **Credit 3**  
This course is an in-depth study of the structure of the entire human body, utilizing lectures, cadaver dissection, and clinical correlation for the medical practitioner. Prerequisites: Departmental consent and/or admission to Professional Program. BIOL 111, BIOL 113, BIOL 231, BIOL 232, BIOL 233, BIOL 234, BIOL 301, BIOL 303.
- PHAS 301**      **Physiology** **Credit 3**  
This course involves the examination of the mechanisms involved in control of body functions. The basic chemical and physical principles of human function are discussed. Prerequisites: Departmental consent and/or admission to Professional Program. BIOL 111, BIOL 113, BIOL 231, BIOL 232, BIOL 233, BIOL 234, BIOL 301, BIOL 303.
- PHAS 302**      **Clinical Chemistry** **Credit 3**  
This course examines the chemical and molecular control and reactions in the human body. Clinical correlations of various biochemical parameters measured in body fluids under a variety of abnormal conditions are considered. Prerequisites: Departmental consent and/or admission to Professional Program. CHEM 111, CHEM 112, CHEM 113, CHEM 114, CHEM 211, CHEM 213.
- PHAS 303**      **Clinical Laboratory Procedures** **Credit 2**  
This course applies scientific laboratory methods to diagnostic and therapeutic problems of clinical medicine; it focuses on the enhancement of diagnostic accuracy, as well as how to monitor a patient's response to therapy and order Lab. tests in a timely, appropriate, and cost effective manner. Prerequisites: Departmental consent and/or admission to Professional Program. PHAS 300, PHAS 301, PHAS 311, PHAS 312, PHAS 315.
- PHAS 304**      **Clinical Medicine I** **Credit 3**  
This course provides a systematic analysis of major diseases encountered in primary care medicine by utilizing an organ systems approach. Emphasis is placed on etiology, Pathophysiology, and the presentation, diagnosis, management, and prevention of diseases. Prerequisites: Successful completion of PHAS 300 and PHAS 301, departmental consent and/or admission to Professional Program. PHAS 300, PHAS 301, PHAS 311, PHAS 312, PHAS 315.
- PHAS 305**      **Clinical Medicine II** **Credit 3**  
This course is a continuation of Clinical Medicine I. Prerequisites: Successful completion of PHAS 300 and PHAS 301, Departmental consent and/or admission to Professional Program. PHAS 300, PHAS 301, PHAS 311, PHAS 312, PHAS 315.
- PHAS 306**      **Clinical Medicine III** **Credit 3**  
This course addresses the etiology, presentation, diagnosis, and management of diseases most prevalent in Pediatrics, Obstetrics and Gynecology, and Geriatric subspecialties. Prerequisites: Successful completion of PHAS 304 and PHAS 305, Departmental consent and/or admission to Professional Program. PHAS 304, PHAS 305.
- PHAS 307**      **Clinical Medicine IV** **Credit 3**  
This course addresses the etiology, presentation, diagnosis, and management of diseases most prevalent in surgery, emergency medicine, and psychiatry. Prerequisites: Successful completion of PHAS 306, Departmental consent, and/or admission to Professional Program. PHAS 304, PHAS 305.

- PHAS 308      Community Health & Epidemiology      Credit 2**  
 This course will review epidemiological factors affecting health maintenance and the development of programs of disease prevention, intervention, and health promotion. Prerequisite: PHAS 201.
- PHAS 309      Health Care Ethics & Law      Credit 2**  
 This course provides a focused review of current philosophies, policies, and ethical issues in contemporary health care targeted at the Physician Assistant profession. Prerequisite: PHAS 201.
- PHAS 310      Nutrition      Credit 2**  
 This course explores the process of nutritional assessment and intervention for healthy living and maintenance. Prerequisite: PHAS 201.
- PHAS 311      Pathophysiology      Credit 3**  
 This course analyzes the abnormal human structure or function responsible for various disease processes. It is concerned with the etiology, clinical manifestation, and progress of human disease. Prerequisites: BIOL 111, BIOL 113, BIOL 231, BIOL 232, BIOL 233, BIOL 234, BIOL 301, BIOL 303.
- PHAS 312      Pharmacology I      Credit 3**  
 This course explores the general principles of pharmacology, including pharmacokinetics and pharmacodynamics, classes of therapeutic agents, mechanisms of action, proper routes of administration, common side effects, and drug interactions and contraindications. Prerequisite: Departmental consent and/or admission to Professional Phase. Prerequisite: PHAS 302.
- PHAS 313      Pharmacology II      Credit 3**  
 This course is a continuation of Pharmacology I. Prerequisites: Successful completion of PHAS 312, Departmental consent, and/or admission to Professional Phase. Prerequisite: PHAS 312.
- PHAS 314      Physician Assistant Role      Credit 1**  
 This course entails discussions of issues relevant to the Physician Assistant practice. Concepts relevant to the Physician Assistant role are explored. Prerequisite: PHAS 200.
- PHAS 315      Physical Diagnosis I      Credit 2**  
 This course teaches the student how to elicit and perform a comprehensive history and physical examination, as well as how to properly document and present findings. Prerequisites: Departmental consent and/or admission to the Professional Phase, PHAS 200.
- PHAS 316      Physical Diagnosis II      Credit 2**  
 This course will teach the student how to perform a history and physical examination directed toward specific age groups throughout the life cycle. The differentiation of abnormal physical findings will be explored on an organ systems approach. The development of differential diagnoses and management plans will be performed. Prerequisites: Successful completion of PHAS 315, Departmental consent, and/or admission to the Professional Phase. PHAS 315.
- PHAS 317      Physical Diagnosis III      Credit 3**  
 This course covers the indications, contraindications, step-by-step procedures, and complications of hands-on clinical skills, which are commonly performed in medical practice, such as phlebotomy, injections, IV therapy, urethral and nasogastric catheterization, pulmonary function testing, suturing, casting and splinting, various ENT procedures, electrocardiogram, and use of various types of monitoring devices. The students will be required to complete an Advanced Cardiac Life Support Course. Prerequisites: Successful completion of PHAS 315 and PHAS 316, Departmental consent, and/or admission to the Professional Phase. PHAS 315 and 316.
- PHAS 400      Internal Medicine Clerkship      Credit 4**  
 This course is a clinical rotation of five weeks in a community based or institutional setting. The student will obtain in depth clinical exposure in the areas of cardiology, pulmonology, gastroenterology, and rheumatology. The student will perform history and physical examinations as appropriate to the medical condition and participate in evaluation, management, and treatment of acute and chronic medical problems. Prerequisites: Departmental consent and/or admission to the Professional Phase. PHAS 306, PHAS 307, PHAS 317.

- PHAS 401 Pediatric and Adolescent Medicine Clerkship Credit 4**  
 This course is a five week clinical rotation that takes place in a physician's office or institutional setting. The students will have clinical exposure to newborn and infant exams, well child care, anticipatory guidance for parents, routine care of the newborn including feeding, sleeping, bowel habits, and identification of common congenital deformities or malformations. The student will perform history and physical examinations and participate in evaluation, management, and treatment of acute and chronic medical conditions. Prerequisite: Departmental consent and/or admission to the Professional Phase. Prerequisites: PHAS 306, PHAS 307, PHAS 317.
- PHAS 402 Surgery Clerkship Credit 4**  
 This course is a five week clinical rotation that takes place in an inpatient and outpatient setting. The student will develop skills and knowledge in performing initial pre-operative as well as post-operative evaluations including post-operative complications. The student will perform an *Assessment of Operative Risk* and be able to compose and record accurate, concise post-operative notes, orders, evaluation, and treatment. Prerequisites: Departmental consent and/or admission to the Professional Phase. PHAS 306, PHAS 307, PHAS 317
- PHAS 403 Clinical Transition I Credit 1**  
 This course enables students to make the transition from the University of Maryland Eastern Shore Physician Assistant Program to the workforce. The following activities are included: National Certification Examination preparation, resume writing, contract negotiations, third party reimbursement, malpractice, licensure, quality assurance, risk management and clinical skills refinement. Prerequisites: Departmental consent and/or admission to the Professional Phase, PHAS 306, PHAS 307, PHAS 317.
- PHAS 404 Clinical Transition II Credit 1**  
 This course is a continuation of PHAS 403. Prerequisites: Departmental consent and/or admission to the Professional Phase. PHAS 306, 307, 317
- PHAS 405 Clinical Transition III Credit 1**  
 This course is a continuation of PHAS 403 and PHAS 404. Departmental consent and/or admission to the Professional Phase. Prerequisites: PHAS 306, PHAS 307, PHAS 317, PHAS 404.
- PHAS 406 Psychiatry Clerkship Credit 4**  
 This course is a five-week clinical rotation in Psychiatry and related psycho-pharmacology outpatient setting. The student will perform a psychiatric history, a mental status examination, and identify and evaluate common psychiatric disorders. The student will have exposure to pharmacologic as well and non-pharmacologic interventions, their indications, contraindications, and relative merit thereof. Prerequisites: Departmental consent and/or admission to the Professional Phase. PHAS 306, 307, 317
- PHAS 407 Emergency Medicine Clerkship Credit 4**  
 This course is a five-week clinical rotation in a hospital setting. The student will have exposure to cardiovascular, pulmonary, neurological, psychological/psychiatric, obstetrical, gynecological infectious disease, thermal, allergic, soft tissue, ear, nose and throat, and orthopedic emergencies, amongst many others. The student will perform a history, physical exam, and evaluation of the particular conditions presented. Prerequisites: Departmental consent and/or admission to the Professional Phase. PHAS 306, PHAS 307, PHAS 317.
- PHAS 408 Obstetrics and Gynecology Clerkship Credit 4**  
 This course is a five-week clinical rotation that takes place in an outpatient and or inpatient setting. The student will obtain a history and perform an examination appropriate to the female patient. The student will have exposure to techniques employed in a routine physical examination of the female reproductive system, clinical manifestations, diagnosis, and management of common gynecological and obstetric conditions.. The student will employ diagnostic tests and procedures as they are clinically significant in the OB/GYN patient. Prerequisites: Departmental consent and/or admission to the Professional Phase, PHAS 306, PHAS 307, PHAS 317.
- PHAS 409 Family Practice I Clerkship Credit 4**  
 This course is a five-week clinical rotation in an outpatient office setting. The student will have overall exposure to common ear, nose and throat, cardiac, respiratory, gastroenterology, hematology, oncology, endocrinology, gynecology, genitourinary, musculoskeletal, dermatology, psychiatry, and neurology disease entities. The student will be called upon to perform routine in-office procedures to assist in the evaluation and management of the patient. Prerequisites: Departmental consent and/or admission to the Professional Phase, PHAS 306, PHAS 307, PHAS 317.



**PHAS 410            Family Practice II Clerkship**

**Credit 4**

This course is a nine-week clinical rotation as a further extension of Family Practice I. This rotation will allow the student to apply expanded skills and knowledge (obtained in Family Practice I) of ambulatory care environment under the direction and supervision of a physician. Prerequisites: Departmental consent and/or admission to the Professional Phase, PHAS 306, PHAS 307, PHAS 317.

**PHAS 411            Gastroenterology Subspecialty Clerkship**

**Credit 4**

This course is a five-week clinical rotation with in-depth study and application of disorders of the esophagus, stomach, liver, gallbladder, pancreas, and colon. The student will be exposed to the clinical manifestations, physical exam finding, diagnostic workup, treatment, complications, and prognoses of various disease entities as they relate to the gastrointestinal system. Prerequisites: Departmental consent and/or admission to the Professional Phase, PHAS 306, PHAS 307, PHAS 317.

**PHAS 412            Rehabilitation Subspecialty Clerkship**

**Credit 4**

This course is a five week clinical rotation in which the student will be exposed to common surgical problems and evaluation of patient injuries, complication of injuries, and the current needs for durable medical equipment such as wheel chairs, crutches, casts, etc. The student will be able to recognize, evaluate, and discuss the most common injuries and assess needs for Occupational, Physical, and Respiratory Therapy and other ancillary allied health personnel. Prerequisites: Departmental consent and/or admission to the Professional Phase. PHAS 306, PHAS 307, PHAS 317.

**PHAS 413            Geriatric Subspecialty Clerkship**

**Credit 4**

This course is a five week clinical rotation in an outpatient, assisted living, or nursing home setting. The student will have clinical exposure to eliciting an appropriate, well organized medical history and performing an examination related to the elderly and the particular complaint. The student will develop competency in selecting appropriate laboratory and diagnostic procedures with attention to correct sequencing, patient preparation requirements, and risk. The student will be exposed to physiological patterns, psychosocial changes, normal age-related changes, management, complications, and management of disease entities specific to the elderly. Prerequisites: Departmental consent and/or admission to the Professional Phase, PHAS 306, PHAS 307, PHAS 317.

**PHAS 414            Orthopedics Subspecialty Clerkship**

**Credit 4**

This course is a five-week clinical rotation in which the student is assigned to an attending, senior resident and or a PA, and will function as a member of his /her Orthopedic or ER trauma team. The student will elicit a thorough and well-organized history from a patient and perform a physical exam relevant to the patient's problem. The student will develop competency in selecting and interpreting appropriate radiographic views required for fractures and other musculoskeletal complaints and the necessary skills for casting, splinting, and suturing. Prerequisites: Departmental consent and/or admission to the Professional Phase. PHAS 306, PHAS 307, PHAS 317.

**PHAS 415            Otolaryngology Subspecialty Clerkship**

**Credit 4**

This course is a five-week clinical rotation in which the student is assigned to an attending physician, resident or team. The student is exposed to history, physical evaluation, and management of hearing loss, ear canal, Eustachian tube, middle and inner ear, nose and paranasals, mouth and pharynx and laryngeal disorders. Prerequisites: Departmental consent and/or admission to the Professional Phase. PHAS 306, PHAS 307, PHAS 317.

**PHAS 416            Dermatology Subspecialty Clerkship**

**Credit 4**

This course is a five-week clinical rotation in which the student is exposed to evaluating, diagnosing, and managing acute and chronic dermatological conditions. The student utilizes procedures particular to the disease entity. The student is also expected to describe the etiology, presentation, differential diagnosis, complications, and applicable laboratory findings and management of fungal, infectious bacterial, parasitic, allergic, follicular, glandular, circulatory, benign, pre-malignant, malignant, systemic, pigmentary, and pruritic dermatologic entities. Prerequisites: Departmental consent and/or admission to the Professional Phase, PHAS 306, PHAS 307, PHAS 317.

**PHAS 417            Neurology Subspecialty Clerkship**

**Credit 4**

This course is a five-week clinical rotation in which the student develops comprehension of neuroanatomy, with regard to expected physical and neurobehavioral findings and lesion localization. The student is exposed to common, urgent/emergent neurological disorders and develops competency in performing a physical, history, evaluation and management as relative to those entities. Prerequisites: Departmental consent and/or Admission to the Professional Phase, PHAS 306, PHAS 307, PHAS 317.

**PHAS 418            Radiology Subspecialty Clerkship**

**Credit 4**

This course is a five-week clinical rotation in which the student develops competency in understanding the varied uses of radiologic examination as a diagnostic tool for patient evaluation. The student will recognize the grossly normal versus abnormal radiologic findings in soft tissue and bony structures. Prerequisites: Departmental consent and/or Admission to the Professional Phase, PHAS 306, PHAS 307, PHAS 317.

**PHAS 419            Cardiology Subspecialty Clerkship**

**Credit 4**

This course is a five-week clinical rotation with in depth study and application of disorders of the heart, valvular, and circulatory systems. The student will be exposed to the clinical manifestations, physical exam findings, diagnostic workup and procedures, treatment, complications and prognoses of various disease entities as they relate to the cardiovascular system. Prerequisites: Departmental consent and Admission to the Professional Phase, PHAS 306, PHAS 307, PHAS 317.

**DIRECTORY OF FACULTY**

**Huddleston, Christjon** ..... **Medical Director**  
Master of Medicine, University of Maryland; B.A. Stanford University

**Jackson-Bowen, Darlene** ..... **Chair & Program Director; Clinical Assistant Professor**  
Master of Physician Assistant Studies, University of Nebraska; B.S. Howard University; Certificate of Primary Care Physician Assistantship, Howard University

**Stanford, Peter** ..... **Academic Coordinator and Clinical Assistant Professor**  
Master of Public Health, UNC-Chapel Hill; B.S. Duke University; Physician Assistant Certificate, Duke University; B.A. Antioch College

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## DEPARTMENT OF REHABILITATION

www.umes.edu/SHP/

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**Dr. William Talley, Chairperson**

### MISSION

The mission of the undergraduate program in rehabilitation services is to prepare students for entry-level employment in a variety of human services and rehabilitation-related settings, especially those serving individuals with physical, emotional, and developmental disabilities. The program is also designed to prepare its graduates to enter master's level programs in rehabilitation, psychology, physical therapy, related allied health fields, and human services.

### OBJECTIVES

The objectives of the Rehabilitation Services program are to:

1. Offer instruction which reflects the philosophy and mission of the National Council on Rehabilitation Education.
2. Meet the academic requirements established by the University.
3. Meet the professional requirements and standards set by rehabilitation and related professional organizations.
4. Provide courses and learning experiences which prepare students for employment in rehabilitation, as well as the allied health and related human service professions.
5. Guide students in the development of leadership skills through participation in rehabilitation-related programs and student organizations.
6. Provide course offerings and professional programs to the University and the general community.
7. Provide an intellectual environment designed to facilitate academic growth and creative development.
8. Prepare students for graduate school and continued professional development.

### DEGREES OFFERED

Bachelor of Science - Rehabilitation Services  
Master of Science<sup>1</sup> - Rehabilitation Counseling

### CERTIFICATION

Chemical Dependency Provisional Certification

### GENERAL PROGRAM REQUIREMENTS

The admission of students to the undergraduate program in the Department of Rehabilitation is based upon the general admission requirements of the University.

### DEPARTMENTAL REQUIREMENTS

Rehabilitation Services major--The Rehabilitation Services major must complete at least 120 credit hours of University courses. Included in the 120 credit hours are a minimum of 42 credit hours of Rehabilitation courses. A minimum grade of "C" must be achieved in these courses. For those students choosing a career in Allied Health, a minimum of 129 credit hours is recommended. These additional credits are courses that are normally prerequisites for graduate study in the Allied Health fields. To graduate with a degree in rehabilitation from either the American Sign Language Option or the Allied Health Option<sup>2</sup>, 120 credit hours are required.

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<sup>1</sup>Please consult the Graduate School Catalog for details.

<sup>2</sup>For students in the Allied Health Option who are considering graduate studies in Physical Therapy, Occupation Therapy or closely related field, nine additional credits are recommended. These "Electives" on the Allied Health Option are already predetermined and indicated with a Superscript number 6 (<sup>6</sup>) on the "Curriculum Guide for Rehabilitation Allied Health Option".

### CAREER OPPORTUNITIES

While "rehabilitation" is a term used in many fields, for us it primarily means the vocational rehabilitation of individuals who have disabilities and need assistance as they pursue their vocational goals. While our historical and legislative roots are firmly embedded in vocational rehabilitation, the field has greatly expanded. Graduates may go on to provide a variety of services to people with disabilities, including, but not limited to, vocational services. This four year course of study prepares students to become rehabilitation professionals, (e.g., case managers, and to successfully assume the role of care professionals in hospitals, mental health centers, developmental disability centers, residential chemical dependency treatment centers, etc.).

Those students interested in pursuing careers in the behavioral science orientation of rehabilitation, e.g. psychology, counseling, or vocational employment should follow the course sequence. Those students interested in pursuing careers in the allied health fields, e.g. occupational therapy or physical therapy should follow the Allied Health concentration.

#### COMMON REQUIRED COURESES

|           |                    |          |                    |
|-----------|--------------------|----------|--------------------|
| BIOL 231  | CRJS 101 <b>or</b> | BUED 212 | HUEC 203 <b>or</b> |
| BIOL 233  | SOCI 202 <b>or</b> | MATH 210 | PSYC 305           |
| EDSP 200B | SOCI 250           | PSYC 371 |                    |

#### REQUIRED MAJOR COURSES

|                       |          |          |          |
|-----------------------|----------|----------|----------|
| REHA 201 <sup>1</sup> | REHA 301 | REHA 304 | REHA 401 |
| REHA 301              | REHA 302 | REHA 305 | REHA 402 |
| REHA 302              | REHA 303 | REHA 306 | REHA 403 |
| REHA 303              |          |          | REHA 406 |

#### Student must select two REHA Option courses:<sup>2</sup>

|          |          |          |          |
|----------|----------|----------|----------|
| ASLS 203 | REHA 311 | REHA 404 | REHA 411 |
| ASLS 204 |          | REHA 405 | REHA 412 |
| ASLS 307 |          | REHA 407 | REHA 421 |
| ASLS 308 |          | REHA 408 | REHA 499 |
| ASLS 421 |          | REHA 409 |          |

<sup>1</sup>REHA 201 is the prerequisite for all REHA courses.

<sup>2</sup>Student must select two courses beginning with ASLS 203 and ending with REHA 499.

**CURRICULUM GUIDE FOR REHABILITATION SERVICES**

**FRESHMAN YEAR**

| <i>First Semester</i> | <i>Credit</i> | <i>Second Semester</i> | <i>Credit</i> |
|-----------------------|---------------|------------------------|---------------|
| ENGL 101              | 3             | BIOL 111 <sup>1</sup>  | 3             |
| MATH 109              | 3             | BIOL 113 <sup>1</sup>  | 1             |
| SOCI 101              | 3             | ENGL 102               | 3             |
| REHA 188 <sup>2</sup> | 1             | PSYC 200               | 3             |
| EXSC 111 <sup>3</sup> | 3             | SOCI 201               | 3             |
| CHEM 101              | <u>3</u>      | Elective               | <u>3</u>      |
|                       | 16            |                        | 16            |

**SOPHOMORE YEAR**

| <i>First Semester</i>           | <i>Credit</i> | <i>Second Semester</i>          | <i>Credit</i> |
|---------------------------------|---------------|---------------------------------|---------------|
| BIOL 231                        | 3             | REHA 201 <sup>4</sup>           | 3             |
| BIOL 233                        | 1             | EDSP 200B                       | 3             |
| ENGL 203                        | 3             | MATH 210                        | 3             |
| BUED 212                        | 3             | GEN ED CURR AREA I <sup>5</sup> | 3             |
| SOCI 202 <sup>6</sup>           | 3             | Elective                        | <u>3</u>      |
| GEN ED CURR AREA I <sup>5</sup> | <u>3</u>      |                                 | 15            |
|                                 | 16            |                                 |               |

**JUNIOR YEAR**

| <i>First Semester</i> | <i>Credit</i> | <i>Second Semester</i> | <i>Credit</i> |
|-----------------------|---------------|------------------------|---------------|
| ENGL 305              | 3             | REHA 302               | 3             |
| REHA 306              | 3             | REHA 305               | 3             |
| REHA 301              | 3             | PSYC 371               | 3             |
| REHA 303              | 3             | PSYC 305 <sup>7</sup>  | 3             |
| Elective              | <u>3</u>      | Elective               | <u>3</u>      |
|                       | 15            |                        | 15            |

**SENIOR YEAR**

| <i>First Semester</i>    | <i>Credit</i> | <i>Second Semester</i>   | <i>Credit</i> |
|--------------------------|---------------|--------------------------|---------------|
| REHA 304                 | 3             | REHA 401                 | 6             |
| REHA 402                 | 3             | REHA 406                 | 3             |
| REHA 403                 | 3             | REHA Option <sup>8</sup> | <u>3</u>      |
| REHA Option <sup>8</sup> | 3             |                          | 12            |
| Elective                 | <u>3</u>      |                          |               |
|                          | 15            |                          |               |

Total Credits Hours Required: 120

<sup>1</sup>BIOL 188A and 188 are authorized substitutions.

<sup>2</sup>GNST 100 is an authorized substitution.

<sup>3</sup>EXSC 111 can only be taken **once** for credit.

<sup>4</sup>REHA 201 is the prerequisite for all REHA courses.

<sup>5</sup>Student must select from GEN ED CURR AREA I: Humanities

<sup>6</sup>SOCI 250 or CRJS 101 are authorized substitutions.

<sup>7</sup>HUEC 203 is an authorized substitution.

<sup>8</sup>Student must select from Required Common Course section in Rehabilitation Services

## **AMERICAN SIGN LANGUAGE**

### **DEPARTMENTAL REQUIREMENTS**

If students are following the Rehabilitation course sequence, they must take at least fifteen (15) credits in courses that are consistent with their career goals. Students are encouraged to select courses from the following list of recommended electives if they wish to fulfill requirements for American Sign Language Studies. Select 100, 200, 300, or 400 level courses parallel with the first, second, third or fourth year of college. Courses in Rehabilitation, Psychology, Sociology, Social Work, or Criminal Justice are recommended.

The following courses prepare individuals who are interested in developing communication skills for interacting with the Deaf community. The Program is open to other academic units at the University of Maryland Eastern Shore and to the community for individuals who are interested in acquiring sign language skills. ASLS courses are authorized substitutions for the two required Rehabilitation Options.

### **REQUIRED MAJOR COURSES**

ASLS 202  
ASLS 203  
ASLS 204  
ASLS 307  
ASLS 308  
ASLS 421

## CURRICULUM GUIDE FOR AMERICAN SIGN LANGUAGE

### FRESHMAN YEAR

| <i>First Semester</i> | <i>Credit</i> | <i>Second Semester</i> | <i>Credit</i> |
|-----------------------|---------------|------------------------|---------------|
| ENGL 101              | 3             | BIOL 111 <sup>1</sup>  | 3             |
| MATH 109              | 3             | BIOL 113 <sup>1</sup>  | 1             |
| SOCI 101              | 3             | ENGL 102               | 3             |
| REHA 188 <sup>2</sup> | 1             | PSYC 200               | 3             |
| EXSC 111              | 3             | SOCI 201               | 3             |
| CHEM 101              | <u>3</u>      | ASLS 202               | <u>3</u>      |
|                       | 16            |                        | 16            |

### SOPHOMORE YEAR

| <i>First Semester</i> | <i>Credit</i> | <i>Second Semester</i> | <i>Credit</i> |
|-----------------------|---------------|------------------------|---------------|
| BIOL 231              | 3             | REHA 201 <sup>3</sup>  | 3             |
| BIOL 233              | 1             | EDSP 200B              | 3             |
| ENGL 203              | 3             | MATH 210               | 3             |
| BUED 212              | 3             | GEN ED CURR AREA I     | 3             |
| SOCI 202 <sup>4</sup> | 3             | ASLS 204               | <u>3</u>      |
| ASLS 203              | <u>3</u>      |                        | 15            |
|                       | 16            |                        |               |

### JUNIOR YEAR

| <i>First Semester</i> | <i>Credit</i> | <i>Second Semester</i> | <i>Credit</i> |
|-----------------------|---------------|------------------------|---------------|
| ENGL 305              | 3             | REHA 302               | 3             |
| REHA 306              | 3             | REHA 305               | 3             |
| REHA 301              | 3             | PSYC 371               | 3             |
| REHA 303              | 3             | PSYC 305 <sup>5</sup>  | 3             |
| ASLS 307              | <u>3</u>      | ASLS 308               | <u>3</u>      |
|                       | 15            |                        | 15            |

### SENIOR YEAR

| <i>First Semester</i>    | <i>Credit</i> | <i>Second Semester</i>   | <i>Credit</i> |
|--------------------------|---------------|--------------------------|---------------|
| REHA 304                 | 3             | REHA 401                 | 6             |
| REHA 402                 | 3             | REHA 406                 | 3             |
| REHA 403                 | 3             | REHA Option <sup>6</sup> | <u>3</u>      |
| REHA Option <sup>6</sup> | 3             |                          | 12            |
| ASLS 421                 | <u>3</u>      |                          |               |
|                          | 15            |                          |               |

Total Credits Hours Required: 120

<sup>1</sup>BIOL 188A and 188 are authorized substitutions.

<sup>2</sup>GNST 100 is an authorized substitution.

<sup>3</sup>REHA 201 is the prerequisite for all REHA courses.

<sup>4</sup>SOCI 250 or CRJS 101 are authorized substitutions.

<sup>5</sup>HUEC 203 is an authorized substitution.

<sup>6</sup>Student must select from Required Common Course section.



## **CHEMICAL DEPENDENCY PROVISIONAL CERTIFICATION REQUIREMENTS**

### **DEPARTMENTAL REQUIREMENTS**

If students are following the Rehabilitation course sequence, they must take at least fifteen (15) credits in courses that are consistent with their career goals. Students are encouraged to select courses from the following list of recommended electives if they wish to fulfill requirements for Chemical Dependency Provisional Certification. Select 100, 200, 300, or 400 level courses parallel with the first, second, third or fourth year of college. Courses in Rehabilitation, Psychology, Sociology, Social Work, or Criminal Justice are recommended.

### **REQUIRED MAJOR COURSES**

The following courses fulfill the educational requirements for the Chemical Dependency Provisional Certification through the Board of Professional Counselors. These are in addition to required Rehabilitation Services Program Core Courses.

|                       |          |
|-----------------------|----------|
| RECN 701 <sup>1</sup> | REHA 404 |
|                       | REHA 407 |

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<sup>1</sup>Program Approval Required

**CURRICULUM GUIDE FOR CHEMICAL DEPENDENCY PROVISIONAL CERTIFICATION**

**FRESHMAN YEAR**

| <i>First Semester</i> | <i>Credit</i> | <i>Second Semester</i> | <i>Credit</i> |
|-----------------------|---------------|------------------------|---------------|
| ENGL 101              | 3             | BIOL 111 <sup>1</sup>  | 3             |
| MATH 109              | 3             | BIOL 113 <sup>1</sup>  | 1             |
| SOCI 101              | 3             | ENGL 102               | 3             |
| REHA 188 <sup>2</sup> | 1             | PSYC 200               | 3             |
| EXSC 111 <sup>3</sup> | 3             | SOCI 201               | 3             |
| CHEM 101              | <u>3</u>      | Elective               | <u>3</u>      |
|                       | 16            |                        | 16            |

**SOPHOMORE YEAR**

| <i>First Semester</i> | <i>Credit</i> | <i>Second Semester</i> | <i>Credit</i> |
|-----------------------|---------------|------------------------|---------------|
| BIOL 231              | 3             | REHA 201 <sup>4</sup>  | 3             |
| BIOL 233              | 1             | EDSP 200B              | 3             |
| ENGL 203              | 3             | MATH 210               | 3             |
| BUED 212              | 3             | GEN ED CURR AREA I     | 3             |
| SOCI 202 <sup>5</sup> | 3             | Elective               | <u>3</u>      |
| GEN ED CURR AREA I    | <u>3</u>      |                        | 15            |
|                       | 16            |                        |               |

**JUNIOR YEAR**

| <i>First Semester</i> | <i>Credit</i> | <i>Second Semester</i> | <i>Credit</i> |
|-----------------------|---------------|------------------------|---------------|
| ENGL 305              | 3             | REHA 302               | 3             |
| REHA 306              | 3             | REHA 305               | 3             |
| REHA 301              | 3             | PSYC 371               | 3             |
| REHA 303              | 3             | PSYC 305 <sup>6</sup>  | 3             |
| Elective              | <u>3</u>      | Elective               | <u>3</u>      |
|                       | 15            |                        | 15            |

**SENIOR YEAR**

| <i>First Semester</i> | <i>Credit</i> | <i>Second Semester</i> | <i>Credit</i> |
|-----------------------|---------------|------------------------|---------------|
| REHA 304              | 3             | REHA 401               | 6             |
| REHA 402              | 3             | REHA 406               | 3             |
| REHA 403              | 3             | RECN 701               | <u>3</u>      |
| REHA 404              | 3             |                        | 12            |
| REHA 407              | <u>3</u>      |                        |               |
|                       | 15            |                        |               |

Total Credits Hours Required: 120

<sup>1</sup>BIOL 188A and 188 are authorized substitutions.

<sup>2</sup>GNST 100 is an authorized substitution

<sup>3</sup>Course cannot be repeated for credit.

<sup>4</sup>REHA 201 is the prerequisite for all REHA courses.

<sup>5</sup>SOCI 250 or CRJS 101 are authorized substitutions.

<sup>6</sup>HUEC 203 is an authorized substitution.

## **ALLIED HEALTH OPTION<sup>1</sup>**

### **DEPARTMENTAL REQUIREMENTS**

The Rehabilitation Services major must complete at least 120 credit hours of University courses. Included in the 120 credit hours are a minimum of 42 credit hours of Rehabilitation at the 200 level or above for the professional major. A minimum grade of "C" must be achieved in these courses. For those students choosing a career in Allied Health, a minimum of 129 credit hours is recommended. These additional credits are courses that are normally prerequisites for graduate study in the Allied Health fields. To graduate with a degree in rehabilitation from either the Behavioral Rehabilitation Option or the Allied Health Option, 120 credit hours are required.

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<sup>1</sup>\* For students in the Allied Health Option who are considering graduate studies in Physical Therapy, Occupation Therapy or closely related field, nine additional credits are recommended. These "Electives" on the Allied Health Option are already predetermined and indicated with a Superscript number 6 (<sup>6</sup>) on the "Curriculum Guide for Rehabilitation Allied Health Option".

## CURRICULUM GUIDE FOR ALLIED HEALTH OPTION<sup>1</sup>

### FRESHMAN YEAR

| <i>First Semester</i> | <i>Credit</i> | <i>Second Semester</i> | <i>Credit</i> |
|-----------------------|---------------|------------------------|---------------|
| ENGL 101              | 3             | BIOL 111 <sup>2</sup>  | 3             |
| MATH 109              | 3             | BIOL 113 <sup>2</sup>  | 1             |
| SOCI 101              | 3             | ENGL 102               | 3             |
| REHA 188 <sup>3</sup> | 1             | PSYC 200               | 3             |
| EXSC 111              | 3             | SOCI 201               | 3             |
| CHEM 111              | 3             | CHEM 112               | 3             |
| CHEM 113              | <u>1</u>      | CHEM 114               | <u>1</u>      |
|                       | 17            |                        | 17            |

### SOPHOMORE YEAR

| <i>First Semester</i> | <i>Credit</i> | <i>Second Semester</i> | <i>Credit</i> |
|-----------------------|---------------|------------------------|---------------|
| BIOL 231              | 3             | BIOL 232               | 3             |
| BIOL 233              | 1             | BIOL 234               | 1             |
| ENGL 203              | 3             | REHA 201 <sup>4</sup>  | 3             |
| BUED 212              | 3             | EDSP 200B              | 3             |
| SOCI 202 <sup>5</sup> | 3             | MATH 210               | 3             |
| GEN ED CURR AREA I    | <u>3</u>      | GEN ED CURR AREA I     | <u>3</u>      |
|                       | 16            |                        | 16            |

### JUNIOR YEAR

| <i>First Semester</i> | <i>Credit</i> | <i>Second Semester</i> | <i>Credit</i> |
|-----------------------|---------------|------------------------|---------------|
| ENGL 305              | 3             | REHA 302               | 3             |
| REHA 306              | 3             | REHA 305               | 3             |
| REHA 301              | 3             | PSYC 371               | 3             |
| REHA 303              | 3             | PSYC 305 <sup>6</sup>  | 3             |
| PHYS 121              | 3             | PHYS 122               | 3             |
| PHYS 123              | <u>1</u>      | PHYS 124               | <u>1</u>      |
|                       | 16            |                        | 16            |

### SENIOR YEAR

| <i>First Semester</i>    | <i>Credit</i> | <i>Second Semester</i>   | <i>Credit</i> |
|--------------------------|---------------|--------------------------|---------------|
| REHA 304                 | 3             | REHA 401                 | 6             |
| REHA 402                 | 3             | REHA 406                 | 3             |
| REHA 403                 | 3             | REHA Option <sup>7</sup> | 3             |
| REHA Option <sup>7</sup> | 3             | BIOL 301 <sup>8</sup>    | 3             |
| MATH 110 <sup>7</sup>    | <u>3</u>      | BIOL 303 <sup>8</sup>    | <u>1</u>      |
|                          | 15            |                          | 16            |

Total Credit Hours Required: 129

<sup>1</sup>For students in the Allied Health Option who are considering graduate studies in Physical Therapy, Occupation Therapy or closely related field, nine additional credits are recommended. These “Electives” on the Allied Health Option are already predetermined and indicated with a Superscript number 6 (<sup>6</sup>) on the “Curriculum Guide for Rehabilitation Allied Health Option”.

<sup>2</sup>BIOL 188A/188 are authorized substitutions.

<sup>3</sup>GNST 100 is an authorized substitution.

<sup>4</sup>REHA 201 is the prerequisite for all REHA courses.

<sup>5</sup>SOCI 250 or CRJS 101 are authorized substitutions.

<sup>6</sup>HUEC 203 is an authorized substitution.

<sup>7</sup>Student must select from Required Common Course section.

<sup>8</sup>BIOL 326/327 or BIOL 420/421 are authorized substitutions.

## COURSE DESCRIPTIONS FOR AMERICAN SIGN LANGUAGE STUDIES

- ASLS 202      Orientation to Deafness      Credit 3**  
This course provides an overview of deafness focusing on four major topics: the nature and experience of deafness, the education and training of children and adults who are deaf, the deaf adult community, and deafness culture.
- ASLS 203      American Sign Language I      Credit 3**  
This course prepares students to develop expressive and receptive skills in American Sign Language (ASL). The course will include the conceptual sign vocabulary and grammar from ASL.
- ASLS 204      American Sign Language II      Credit 3**  
This course expands the knowledge of expressive and receptive skills in American Sign Language (ASL) beyond knowledge acquired in ASLS 203. The course will focus on structure, grammar, syntax, and vocabulary. Prerequisite: ASLS 203, or proficiency evaluation.
- ASLS 307      American Sign Language III      Credit 3**  
This course provides a more extensive knowledge of expressive and receptive skills in American Sign Language (ASL). Emphasis is placed on cognitive preparation incorporating visual and motor activities. Exposure to other forms of communication used by individuals who are deaf will be introduced. Prerequisites: ASLS 203 and ASLS 204 or proficiency evaluation.
- ASLS 308      American Sign Language IV      Credit 3**  
This course provides an advanced preparation of knowledge in expressive and receptive skills in American Sign Language (ASL). Students become more sensitive to the experiences of the deaf consumer and have instructional activities which lead to the development of visual, spatial, and motor learning memory. Prerequisite: ASLS 203, ASLS 204 and ASLS 307 or proficiency evaluation.
- ASLS 421      Practicum in American Sign Language      Credit 3**  
This course requires a minimum of 135 hours of direct interaction with the deaf community, a group of deaf individuals, or a human services agency providing services to the deaf. Prerequisites: ASLS 203, ASLS 204, ASLS 307 and ASLS 308 or demonstrated advance knowledge of ASL and permission of the Rehabilitation Services Program's Clinical Coordinator.

## REHABILITATION SERVICES

- REHA 188      First Year Experience Seminar      Credit 1**  
This course provides an opportunity for students to make a seamless transition from high school to college. Essential skills for transition will be explored and discussed. This course will assist students in developing cognitive skills and adjusting personally and socially to the college environment. Additionally, this course shall facilitate self-awareness and interpersonal communication. Requirement for all Freshmen. This course is taken by Rehabilitation Services majors in lieu of GNST 100.
- REHA 201<sup>1</sup>      Introduction to Rehabilitation      Credit 3**  
The history, philosophy, and legislation of rehabilitation are examined. The course covers the rehabilitation process from referral to closure. Legal issues, professional ethics, consumer advocacy, and community resources will be investigated. REHA 201 is prerequisite for other REHA courses.
- REHA 301      Health/Medical Information      Credit 3**  
This course provides an overview of health information. Study of basic medical terminology, medical information, and review of body systems will be explored. Review of common disabling conditions, their symptomatology, prognosis, and treatment will be examined. Prerequisites: REHA 201.
- REHA 302      Theories of Counseling      Credit 3**  
This course provides study of counseling theories and techniques and their application in counseling with individuals who have a disability. Prerequisite: REHA 201.

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<sup>1</sup>REHA 201 is the prerequisite for all Rehabilitation Courses.

- REHA 303 Case Recording & Case Management Credit 3**  
This course examines principles and practices of obtaining, recording, evaluating, and utilizing case data in rehabilitation. Techniques of managing caseload of individuals with a disability are explored. Prerequisite: REHA 201.
- REHA 304 Assessment in Rehabilitation Credit 3**  
In this course students conduct a survey of psychological, social and vocational tests. The nature and use of tests in counseling, test analysis and test interpretation are examined. Prerequisite: REHA 201.
- REHA 305 Vocational Development Counseling and Employment Credit 3**  
This course are examines theories of vocational choice, and vocational counseling, and vocational assessment. Job development and placement techniques are discussed. Problems relating to placement of disabled persons in employment are investigated. Prerequisite: REHA 201.
- REHA 306 Counseling Skills and Technology Credit 3**  
This course is designed to expose students to the basic skills and techniques of counseling. Students who participate in this course acquire counseling skills through participation in intensive classroom counseling scenarios. Prerequisite: REHA 201.
- REHA 311 Independent Living Credit 3**  
This course assists students in developing leadership skills and knowledge which will enable them to work with individuals with chronic disabilities. Students will learn the ways these individuals live independently and productively in the community. Prerequisite: REHA 201.
- REHA 401 Field Work in Rehabilitation Services Credit 6**  
This course is a part-time supervised practicum in agencies and institutions providing rehabilitation services essential to employment. Prerequisites: REHA 301, REHA 302, REHA 303, REHA 304, REHA 305 and REHA 306 and permission of the Clinical Coordinator.
- REHA 402 Introduction to Development Disabilities/Online Credit 3**  
This course provides a study of the etiology, treatment, terminology, and related process of rehabilitation to include programs, personnel, and facilities; community resources, and current trends in developmental disabilities. Prerequisite: REHA 201.
- REHA 403 Rehabilitation of the Psychiatrically Impaired Credit 3**  
This course is a study of the history and current practices; programs, personnel, and facilities; community organizations; and trends of the psychiatrically impaired. Prerequisite: REHA 201.
- REHA 404 Rehabilitation Services for the Addict/Hybrid Credit 3**  
This course is a study of the physical, social, psychological, and vocational aspects of the people who have become addicted. Assessment, prevention and treatment techniques are explored. Prerequisite: REHA 201.
- REHA 405 Human Relations in Rehabilitation Credit 3**  
This course provides a study of social and cultural relationships of ethnic and racial groups. Emphasis is on factors relating to employment of culturally diverse individuals with disabilities. Prerequisite: REHA 201.
- REHA 406 Seminar in Rehabilitation Credit 3**  
Current trends, problems, and development in rehabilitation are discussed. Students pursue a special interest area, such as cultural diversity, disability determination, work adjustment, work evaluation, legal and ethical issues, etc., and share information and experience mutually with the class. Lecture, guest speakers, reports, and class discussions are utilized. Prerequisite: REHA 201.
- REHA 407 Pharmacology of Chemical Dependency Rehabilitation Credit 3**  
The medical, psychological, and sociological effects of legal and illegal drugs are discussed. Focus is on the pharmacological actions and behavior effects of cocaine, amphetamines, alcohol, depressants, psychiatric drugs, opiates, marijuana, hallucinogens and other prescription/over-the-counter drugs. Prerequisite: REHA 201.
- REHA 408 Technology in Rehabilitation Credit 3**  
This course provides an overview of technology focused on adaptive and assistive rehabilitation technology, including aids for daily living. Prerequisite: REHA 201.
- REHA 409 Traumatic Brain Injury Rehabilitation Credit 3**  
People with traumatic brain injury (TBI) represent a large group who are receiving vocational rehabilitation. This course will provide the needed knowledge and skills to work effectively with people with TBI. Prerequisite: REHA 201.

**REHA 411          Field Work in Rehabilitation Services II**

**Credit 1-6**

This course is a part-time supervised practicum in agencies and institutions providing rehabilitation services essential to employment. Students must have completed 6 credit hours of REHA 401 to enroll in this course.

**REHA 412          Special Topics in Rehabilitation/Online**

**Credit 3**

This course prepares students to understand current issues and policies regarding disabilities and how those policies influence the rehabilitation process. Prerequisite: REHA 201.

**REHA 421          Practicum in Rehabilitation**

**Credit 1-6**

This course provides for an expanded elective opportunity for students to become exposed to and experience the operations within an agency, organization, or institution. This is a part-time supervised opportunity. Prerequisite: REHA 201.

**REHA 499          Independent Study/Online**

**Credit 1-6**

This course is an intensive study of specialized topics in rehabilitation for advanced students. Permission to take an independent study must be obtained from the instructor when the course is otherwise unavailable. Prerequisite: REHA 201.

**DIRECTORY OF FACULTY**

**Blackmon, Jonathan** ..... **Lecturer/Sign Language Interpreter**  
B.A., Lenoir-Rhyne College

**Faubion, Clayton**..... **Associate Professor**  
B.A., University of Texas; M.Ed., Southwest Texas State; Ph.D., University of Arkansas; Certified Rehabilitation Counselor (C.R.C.)

**Harris, LaKeisha**..... **Assistant Professor**  
B.S., Bowie State University; M.R.C., Bowling Green State University; Ph.D., University of Iowa; Certified Rehabilitation Counselor (C.R.C.)

**Lankford, Gail**..... **Clinical Coordinator**  
B.A.S.W, Salisbury State University; M.Ed., University of Maryland Eastern Shore; Certified Rehabilitation Counselor (C.R.C.); Certified Alcohol Counselor (C.A.C.); Certified Chemical Dependence Counselor (C.C.D.C.); Licensed Clinical Drug Alcohol Counselor (LCDAC)

**Rahimi, Maryam**..... **Associate Professor**  
B.S. Jundishapour University, Iran; M.S., Ph.D., Florida State University; Licensed Clinical Professional Counselor (L.C.P.C.); Certified Rehabilitation Counselor (C.R.C.)

**Talley, William**..... **Professor, Chair and Acting Assistant Dean**  
B.A., South Carolina State University; M.A., South Carolina State University; Rh.D., Southern Illinois University at Carbondale  
Certified Rehabilitation Counselor (C.R.C.)