

# SPORTS MEDICINE - B.S.

College of Education Health and Human Services  
School of Health Sciences  
www.kent.edu/ehhs/hs

## About This Program

The Bachelor of Science in Sports Medicine program equips you with the knowledge and skills needed to work with athletes and patients to prevent, diagnose and treat injuries. With access to advanced facilities, expert faculty and real-world opportunities, you'll be prepared for a fulfilling career in sports medicine. Read more...

## Contact Information

- Program Coordinator: **Jay C. Jonas, Ph.D.** | jjonas2@kent.edu | 330-672-7900
- Speak with an Advisor
- Chat with an Admissions Counselor

## Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

## Examples of Possible Careers and Salaries\*

### Exercise physiologists

- 11.3% much faster than the average
- 19,800 number of jobs
- \$50,280 potential earnings

### Physical therapists

- 18.2% much faster than the average
- 258,200 number of jobs
- \$91,010 potential earnings

\* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

**First-Year Students on the Kent Campus:** First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the

seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

**First-Year Students on the Regional Campuses:** First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

**International Students:** All international students must provide proof of English language proficiency unless they meet specific exceptions. For more information, visit the admissions website for international students.

**Transfer Students:** Students who have attended any other educational institution after graduating from high school must apply as undergraduate transfer students. For more information, visit the admissions website for transfer students.

**Former Students:** Former Kent State students or graduates who have not attended another college or university since Kent State may complete the reenrollment or reinstatement form on the University Registrar's website.

Admission policies for undergraduate students may be found in the University Catalog.

Some programs may require that students meet certain requirements before progressing through the program. For programs with progression requirements, the information is shown on the Coursework tab.

## Program Requirements

| Code   | Title   | Credit Hours |
|--|---|--------------|
| <b>Major Requirements (courses count in major GPA)</b> |   |              |
| ATTR 15002   | INTRODUCTION TO SPORTS MEDICINE CAREERS   | 2            |
| ATTR 15012   | DOCUMENTATION IN HEALTH CARE  | 2            |
| ATTR 20001   | SOCIOCULTURAL ASPECTS OF HEALTH CARE  | 3            |
| ATTR 25036   | RESPONDING TO EMERGENCIES   | 3            |
| ATTR 25037   | PHYSICAL ASSESSMENT TECHNIQUES AND KINESIOLOGY FOR THE LOWER EXTREMITY AND SPINE      | 3            |
| ATTR 25038   | PHYSICAL ASSESSMENT TECHNIQUES AND KINESIOLOGY FOR THE UPPER EXTREMITY, HEAD AND NECK | 3            |
| ATTR 25057   | HUMAN ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)   | 4            |
| ATTR 25058   | HUMAN ANATOMY AND PHYSIOLOGY II (KBS) (KLAB)  | 4            |
| ATTR 35037   | ADVANCED PHYSICAL ASSESSMENT TECHNIQUES   | 3            |
| ATTR 35040   | STRENGTH AND CONDITIONING   | 2            |
| ATTR 35050   | NEUROLOGICAL PROCESS FOR THE HEALTHCARE PROFESSIONAL                                  | 3            |
| ATTR 35054   | BIOMECHANICS  | 3            |
| ATTR 35062   | EVIDENCE-BASED RESEARCH IN HEALTH CARE  | 3            |
| ATTR 43018   | ETHICAL LEADERSHIP FOR HEALTH CARE (WIC)  | 3            |
| ATTR 45019   | PROFESSIONAL RESPONSIBILITY AND MANAGEMENT IN HEALTH CARE                             | 3            |
| ATTR 45040   | PATHOLOGY AND PHARMACOLOGY FOR ALLIED HEALTH CARE PROVIDERS                           | 3            |

|  |  |            |
|--|--|------------|
| ATTR 45041   | ADVANCED THERAPEUTIC INTERVENTIONS                     | 3          |
| ATTR 45492   | INTER-PROFESSIONAL INTERNSHIP IN SPORTS MEDICINE (ELR) | 3          |
| <b>Additional Requirements (courses do not count in major GPA)</b>   |  |            |
| BSCI 10120   | BIOLOGICAL FOUNDATIONS (ELR) (KBS) (KLAB)              | 4          |
| BSCI 30130   | HUMAN PHYSIOLOGY                                       | 3          |
| BSCI 30140   | CELL BIOLOGY   | 4          |
| CHEM 10060   | GENERAL CHEMISTRY I (KBS)                              | 4          |
| CHEM 10061   | GENERAL CHEMISTRY II (KBS)                             | 4          |
| CHEM 10062   | GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)            | 1          |
| CHEM 10063   | GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)           | 1          |
| EXSC 35068   | STATISTICS FOR THE EXERCISE SCIENTIST                  | 3          |
| EXSC 45080   | PHYSIOLOGY OF EXERCISE (WIC)                           | 3          |
| NUTR 23511   | SCIENCE OF HUMAN NUTRITION (KBS)                       | 3          |
| MATH 11010   | ALGEBRA FOR CALCULUS (KMCR)                            | 3          |
| MATH 11022   | TRIGONOMETRY (KMCR)                                    | 3          |
| PHY 13001  | GENERAL COLLEGE PHYSICS I (KBS)                        | 4          |
| PHY 13021  | GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)      | 1          |
| PSYC 11762   | GENERAL PSYCHOLOGY (DIVD) (KSS)                        | 3          |
| UC 10001   | FLASHES 101  | 1          |
| Kent Core Composition  |  | 6          |
| Kent Core Humanities and Fine Arts (minimum one course from each)  |  | 9          |
| Kent Core Social Sciences (must be from two disciplines)   |  | 3          |
| General Electives (total credit hours depends on earning 120 credits hour, including 39 upper-division credit hours) |  | 4          |
| <b>Minimum Total Credit Hours:</b>   |  | <b>120</b> |

## Graduation Requirements

| Minimum Major GPA | Minimum Overall GPA |
|-------------------|---------------------|
| 2.500             | 2.500               |

## Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

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| <b>Semester One</b> |   | <b>Credits</b> |
|---------------------|---|----------------|
| ATTR 15002          | INTRODUCTION TO SPORTS MEDICINE CAREERS     | 2              |
| ATTR 15012          | DOCUMENTATION IN HEALTH CARE                | 2              |
| BSCI 10120          | BIOLOGICAL FOUNDATIONS (ELR) (KBS) (KLAB)   | 4              |
| MATH 11010          | ALGEBRA FOR CALCULUS (KMCR)                 | 3              |
| PSYC 11762          | GENERAL PSYCHOLOGY (DIVD) (KSS)             | 3              |
| UC 10001            | FLASHES 101                                 | 1              |
| <b>Credit Hours</b> |   | <b>15</b>      |
| <b>Semester Two</b> |   |                |
| ATTR 25036          | RESPONDING TO EMERGENCIES                   | 3              |
| CHEM 10060          | GENERAL CHEMISTRY I (KBS)                   | 4              |
| CHEM 10062          | GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB) | 1              |
| MATH 11022          | TRIGONOMETRY (KMCR)                         | 3              |
| NUTR 23511          | SCIENCE OF HUMAN NUTRITION (KBS)            | 3              |

| Kent Core Requirement              |   | 3          |
|------------------------------------|---|------------|
| <b>Credit Hours</b>                |   | <b>17</b>  |
| <b>Semester Three</b>              |   |            |
| ATTR 20001                         | SOCIOCULTURAL ASPECTS OF HEALTH CARE  | 3          |
| ATTR 25057                         | HUMAN ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)   | 4          |
| CHEM 10061                         | GENERAL CHEMISTRY II (KBS)  | 4          |
| CHEM 10063                         | GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)  | 1          |
| Kent Core Requirement              |   | 3          |
| <b>Credit Hours</b>                |   | <b>15</b>  |
| <b>Semester Four</b>               |   |            |
| ATTR 25058                         | HUMAN ANATOMY AND PHYSIOLOGY II (KBS) (KLAB)  | 4          |
| ATTR 35040                         | STRENGTH AND CONDITIONING   | 2          |
| PHY 13001                          | GENERAL COLLEGE PHYSICS I (KBS)   | 4          |
| PHY 13021                          | GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)                                     | 1          |
| Kent Core Requirement              |   | 3          |
| <b>Credit Hours</b>                |   | <b>14</b>  |
| <b>Semester Five</b>               |   |            |
| ATTR 25037                         | PHYSICAL ASSESSMENT TECHNIQUES AND KINESIOLOGY FOR THE LOWER EXTREMITY AND SPINE      | 3          |
| ATTR 35062                         | EVIDENCE-BASED RESEARCH IN HEALTH CARE  | 3          |
| BSCI 30140                         | CELL BIOLOGY  | 4          |
| EXSC 35068                         | STATISTICS FOR THE EXERCISE SCIENTIST   | 3          |
| Kent Core Requirement              |   | 3          |
| <b>Credit Hours</b>                |   | <b>16</b>  |
| <b>Semester Six</b>                |   |            |
| ATTR 25038                         | PHYSICAL ASSESSMENT TECHNIQUES AND KINESIOLOGY FOR THE UPPER EXTREMITY, HEAD AND NECK | 3          |
| ATTR 35037                         | ADVANCED PHYSICAL ASSESSMENT TECHNIQUES   | 3          |
| ATTR 35050                         | NEUROLOGICAL PROCESS FOR THE HEALTHCARE PROFESSIONAL                                  | 3          |
| Kent Core Requirement              |   | 3          |
| General Elective                   |   | 3          |
| <b>Credit Hours</b>                |   | <b>15</b>  |
| <b>Semester Seven</b>              |   |            |
| ATTR 35054                         | BIOMECHANICS  | 3          |
| ATTR 45019                         | PROFESSIONAL RESPONSIBILITY AND MANAGEMENT IN HEALTH CARE                             | 3          |
| BSCI 30130                         | HUMAN PHYSIOLOGY  | 3          |
| Kent Core Requirement              |   | 3          |
| General Elective                   |   | 1          |
| <b>Credit Hours</b>                |   | <b>13</b>  |
| <b>Semester Eight</b>              |   |            |
| ATTR 43018                         | ETHICAL LEADERSHIP FOR HEALTH CARE (WIC)  | 3          |
| ATTR 45040                         | PATHOLOGY AND PHARMACOLOGY FOR ALLIED HEALTH CARE PROVIDERS                           | 3          |
| ATTR 45041                         | ADVANCED THERAPEUTIC INTERVENTIONS  | 3          |
| ATTR 45492                         | INTER-PROFESSIONAL INTERNSHIP IN SPORTS MEDICINE (ELR)                                | 3          |
| EXSC 45080                         | PHYSIOLOGY OF EXERCISE (WIC)  | 3          |
| <b>Credit Hours</b>                |   | <b>15</b>  |
| <b>Minimum Total Credit Hours:</b> |   | <b>120</b> |

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

|  |                    |
|--|--------------------|
| Flashes 101 (UC 10001)   | 1 credit hour      |
| Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission. |                    |
| Diversity Domestic/Global (DIVD/DIVG)  | 2 courses          |
| Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.               |                    |
| Experiential Learning Requirement (ELR)  | varies             |
| Students must successfully complete one course or approved experience.   |                    |
| Kent Core (see table below)  | 36-37 credit hours |
| Writing-Intensive Course (WIC)   | 1 course           |
| Students must earn a minimum C grade in the course.  |                    |
| Upper-Division Requirement   | 39 credit hours    |
| Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.                      |                    |
| Total Credit Hour Requirement  | 120 credit hours   |

## Kent Core Requirements

|   |              |
|---|--------------|
| Kent Core Composition (KCMP)  | 6            |
| Kent Core Mathematics and Critical Reasoning (KMCR)                 | 3            |
| Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each) | 9            |
| Kent Core Social Sciences (KSS) (must be from two disciplines)      | 6            |
| Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)   | 6-7          |
| Kent Core Additional (KADL)   | 6            |
| <b>Total Credit Hours:</b>  | <b>36-37</b> |

## Program Learning Outcomes

Graduates of this program will be able to:

1. Develop foundational knowledge for admission to advanced studies in graduate athletic training programs or employment in associated sports medicine fields
2. Demonstrate sound decision-making through analysis and application in the prevention, management, and resolution of health-related issues associated with sports medicine issues
3. Engage in comprehensive sports medicine care while integrating disciplined-specific, synthesized, creative, respectful and ethical elements
4. Develop confidence and competence to successfully transition into practice and/or higher education programs in sports medicine

## Full Description

The B.S. degree in Sports Medicine will focus on the knowledge and skills that are required for sports medicine and athletic training professionals with specific coursework in anatomy, physiology, kinesiology, biomechanics, chemistry, physics, basics of sports medicine, strength

and conditioning, first aid, pathologies of injury and illness, pathologies of general medical conditions, pharmacology, therapeutic intervention in health care (including modality application and rehabilitation), healthcare organization and management, emergency medical skills, documentation and record keeping in health care and psychology.

Students completing this program will gain experience in direct patient care and patient care skills, preparing them for their specific career path. Direct patient care skills taught and evaluated include, but are not limited to, first aid and CPR, assessment of biomechanics, gait analysis, goniometry, manual muscle testing, postural assessment, palpation, auscultation, emergency management, and obtaining medical and family histories through patient encounters.