

Bachelor Of Science in Clinical and Rehabilitation Sciences

Program Overview

Picture yourself interning in the NFL, treating ballet dancers to meet peak performance, or supporting a rehabilitation clinic. At Manchester University, you can start your journey to incredible opportunities with our Pre-Athletic Training Program. With our Bachelor of Science in Clinical and Rehabilitation Sciences and a concentration in Pre-Athletic Training, you will have hands-on opportunities with clinical modalities, rehabilitation, and evaluation techniques. With didactic and experiential learning, students are prepared to apply to a master’s degree in athletic training. Students who successfully complete a master’s in athletic training from our accredited program will be eligible to sit for the board of certification exam. Passing this exam, a student becomes a certified athletic trainer (ATC).

Athletic trainers serve valuable roles as members of health care teams in high schools, colleges, universities, performing arts venues, professional sports teams, sports medicine clinics, hospital settings and more. Furthermore, because a master’s degree in athletic training is required to become a certified athletic trainer, we make the transition from our Pre-Athletic Training Program to our Master of Athletic Training Program more seamless. Take advantage of unique pathways like Early Assurance and our 3+2 MAT program option, ensuring you are on the fast track to a rewarding career.

Degree Requirements

To earn an undergraduate degree in Clinical and Rehabilitation Sciences, students must have a GPA of 2.0 or higher in the major as well as an overall GPA of 2.0, complete a minimum of 120 credit hours, and fulfill the course requirements of the program listed below. Students interested in the MAT must complete all prerequisite courses with a final grade of C or better and overall GPA of 3.0.

*This is a sample plan; specific courses may vary from year to year. Academic advisors will work with each student to develop their individual schedule.

Total Program Credits: 120+

| CORE | | CREDITS |
|------|---|---------|
| ✓ | Foundation | |
| | LA-FWS First-Year Writing Seminar | 3 |
| | LA-FCS First-Year Communication Seminar | 3 |
| | LA-FQR Quantitative Reasoning | 3-4 |
| | LA-FSS First Year Success Seminar | 1 |
| | LA-FCG Cultural and Global Understanding | 3-5 |
| | Exploration | |
| | LA-EAH Arts and Humanities | 3 |
| | LA-ENS Natural Sciences | 3-6 |
| | LA-ESS Social Sciences | 3-4 |
| | Transformation | |
| | LA-TFR Faith, Reason, and Ethics | 3 |
| | LA-TBI Big Issues - 2 courses | 6-7 |
| | LA-TCE Creative Expression | 1-3 |
| | Additional credits to bring total to 120+ credits | CREDITS |
| ✓ | Electives | |
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| | Experiential Learning | |
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|----------------|------------------|
| MAJOR | *Options |
| CORE | ^CORE equivalent |
| ELECTIVE/MINOR | |
| EXPERIENTIAL | |

| Major-Specific Required Courses | | CREDITS |
|---------------------------------|---|---------|
| ✓ | | |
| | BIOL 202^ Fundamentals of Human Anatomy | 3 |
| | BIOL 202L Fundamentals of Human Anatomy Lab | 1 |
| | BIOL 204 Fundamentals of Human Physiology | 3 |
| | BIOL 204L Fundamentals of Human Physiology Lab | 1 |
| | DATA 210 Statistical Analysis with Lab | 4 |
| | EXSC 101 Introduction to Rehabilitation Sciences | 3 |
| | EXSC 107 Medical Terminology | 3 |
| | EXSC 255 Orthopedic Evaluation | 3 |
| | EXSC 355 Orthopedic Intervention | 3 |
| | EXSC 325 Exercise Physiology | 3 |
| | EXSC 325L Exercise Physiology Lab | 1 |
| | EXSC 410 Admin of Health & Physical Activity Programs | 3 |
| | EXSC 476 Internship in Health/Fitness/Wellness | 3 |
| | CHEM 105^ Introduction to Inorganic Chemistry | 3 |
| | CHEM 105L Introduction to Inorganic Chemistry Lab | 1 |
| | CHEM 106 Introduction to Organic Chemistry | 3 |
| | CHEM 106L Introduction to Organic Chemistry Lab | 1 |
| | CHEM 111 General Chemistry I | |
| | CHEM 111L General Chemistry I Lab | |
| | CHEM 113 General Chemistry II | |
| | CHEM 113L General Chemistry II Lab | |
| | NUTR 210 Introduction to Human Nutrition | 3 |
| | 12 Credit of electives choosen w/advisor & chair | CREDITS |
| | Elective* (BIOL 106-Principles of Biology I) | 4 |
| | Elective* (PHYS 111-College Physics I) | 4 |
| | Elective* (PHYS 112-College Physics II) | 4 |
| | Elective* | |

Example Course Sequence:

The following is a sample of a semester-by-semester approach to completing this program in 4 years.

| YEAR 1 | | | |
|-----------------|---|---------|---------------|
| FIRST SEMESTER | | | |
| COURSE | | CREDITS | PREREQUISITES |
| LA-FWS | First-Year Writing Seminar | 3 | |
| LA-FSS | First Year Success Seminar | 1 | |
| EXSC 101 | Introduction to Rehabilitation Sciences | 3 | |
| LA-EAH | Arts and Humanities | 3 | |
| BIOL 106* | Principles of Biology I | 4 | Fall |
| JAN TERM | | | |
| COURSE | | CREDITS | |
| ELECTIVE/MINOR | | 3 | |
| SECOND SEMESTER | | | |
| COURSE | | CREDITS | |
| EXSC 107 | Medical Terminology | 3 | |
| BIOL 202^ | Fundamentals of Human Anatomy | 3 | Spring |
| BIOL 202L | Fundamentals of Human Anatomy Lab | 1 | Spring |
| LA-FCS | First-Year Communication Seminar | 3 | |
| ELECTIVE/MINOR | | 3 | |
| | | 30 | |

| YEAR 2 | | | |
|-----------------|---|---------|-----------------------------|
| THIRD SEMESTER | | | |
| COURSE | | CREDITS | PREREQUISITES |
| LA-FQR | Quantitative Reasoning | 3 | |
| BIOL 204 | Fundamentals of Human Physiology | 3 | Fall |
| BIOL 204L | Fundamentals of Human Physiology Lab | 1 | Fall |
| CHEM 105^ | Introduction to Inorganic Chemistry | 3 | MATH 105 or higher; Fall |
| CHEM 105L | Introduction to Inorganic Chemistry Lab | 1 | |
| CHEM 111 | General Chemistry I | | PT School Requirement Level |
| CHEM 111L | General Chemistry I Lab | | PT School Requirement Level |
| ELECTIVE/MINOR | | 3 | |
| JAN TERM | | | |
| COURSE | | CREDITS | |
| LA-TFR | Faith, Reason, and Ethics | 3 | |
| FOURTH SEMESTER | | | |
| COURSE | | CREDITS | |
| LA-ESS | Social Sciences | 3 | |
| DATA 210 | Statistical Analysis with Lab | 4 | MATH 105 or higher |
| CHEM 106 | Introduction to Organic Chemistry | 3 | |
| CHEM 106L | Introduction to Organic Chemistry Lab | 1 | |
| CHEM 113 | General Chemistry II | | PT School Requirement Level |
| CHEM 113L | General Chemistry II Lab | | PT School Requirement Level |
| ELECTIVE/MINOR | | 3 | |
| | | 28 | |

4-Year Sample Schedule Cont.

| YEAR 3 | | | |
|----------------|-----------------------------------|---------|---|
| FIFTH SEMESTER | | | |
| COURSE | | CREDITS | PREREQUISITES |
| LA-TCE | Creative Expression | 3 | |
| EXSC 325 | Exercise Physiology | 3 | BIOL 204/204L; consent of instr., FYWS or ENG 111 |
| EXSC 325L | Exercise Physiology Lab | 1 | completion of or concurrent enroll. EXSC 325 |
| PHYS 111* | College Physics I | 4 | MATH 105 or higher; Fall |
| EXPERIENTIAL | | 3 | |
| JAN TERM | | | |
| COURSE | | CREDITS | |
| EXPERIENTIAL | | 3 | |
| SIXTH SEMESTER | | | |
| COURSE | | CREDITS | |
| LA-FCG | Cultural and Global Understanding | 3 | |
| EXSC 255 | Orthopedic Evaluation | 3 | BIOL 202 and BIOL 202L |
| NUTR 210 | Introduction to Human Nutrition | 3 | |
| PHYS 112* | College Physics II | 4 | PHYS 111; Spring |
| EXPERIENTIAL | | 3 | |
| | | 33 | |

| YEAR 4 | | | |
|------------------|---|---------|--|
| SEVENTH SEMESTER | | | |
| COURSE | | CREDITS | PREREQUISITES |
| LA-TBI | Big Issues | 3 | |
| EXSC 476 | Internship in Health/Fitness/Wellness | 3 | Junior or senior standing; dept chair approval |
| EXSC 410 | Admin of Health & Physical Activity Program | 3 | FWS or ENG 111 |
| EXPERIENTIAL | | 3 | |
| JAN TERM | | | |
| COURSE | | CREDITS | |
| EXPERIENTIAL | | 3 | |
| EIGHTH SEMESTER | | | |
| COURSE | | CREDITS | |
| ELECTIVE/MINOR | | 3 | |
| EXSC 355 | Orthopedic Intervention | 3 | BIOL 202 and BIOL 202L |
| EXPERIENTIAL | | 3 | |
| (LA-TBI) | (Choice-Big Issues) | 3 | |
| ELECTIVE/MINOR | | 3 | |
| | | 30 | |
| TOTAL CREDITS | | 121 | |