

## **Program Profile Medical & Sports Sciences**

The Medical and Sports Sciences Program is a two-year college preparatory program that meets for just over two hours per day, five days per week. The rigorous curriculum prepares students to pursue further education towards a career in the medical sciences. One year of high school biology is a prerequisite for admission to the program.

Across the two years of the program, the curriculum covers a full, college-level anatomy and physiology curriculum (Anatomy & Physiology I and II). The anatomy and physiology curriculum incorporates related medical terminology, associated diseases (pathology), diagnostic tests and treatment approaches by body system. Laboratory work parallels lecture topics and includes microscopy, dissection and orientation to common medical instruments and equipment. The application of anatomy and physiology in a clinical setting is another component of this curriculum. Students practice the following clinical skills in a hands-on learning environment: patient interview and vital sign measurement, nutrition (including consideration for the athlete), wound management, massage, neurological and cardiopulmonary assessment and interventions, kinesiology, phlebotomy, lab diagnostics, and medical microbiology.

The curriculum also includes a full, college-level Human Growth and Development course. This course covers the physical, cognitive and psychosocial development of the individual from conception through death. The course stresses the importance of changes that occur at each stage of the life span and the relationships between the different aspects of development.

The Medical and Sports Sciences program has developed dual enrollment agreements with Vermont Technical College (VTC) and the Community College of Vermont (CCV). The Medical and Sports Sciences instructors have adjunct faculty status at both colleges and, as such, can offer students participating in this program a college-level academic experience. Students who participate in the program at the honors level have the opportunity to earn up to 17 college credits across the two years of the program in Anatomy & Physiology I and II, Medical Terminology, Nutrition and Human Growth and Development. Students who participate in the program at the standard level can earn 3 college credits in Human Biology.

Both years of the program incorporate a strong clinical component. In the first year students are encouraged to rotate through various departments within a medical facility allowing them to explore various health careers. In the second year of the program students volunteer in a focused clinical area based on their area of interest. By the end of the two years of the program, students have completed approximately 30 hours of clinical experience. Students are also encouraged to participate in community outreach through individual and group activities.

The program has been divided into two levels (Standard Level and Honors Level) to accommodate the academic needs of the students enrolled.

- Honors level students are required to take a college level test for each unit covered.
- Honors level students are also expected to do an additional project for each unit (examples include 3-D models, educational games, practice tests, posters,...)
- Honors level students are eligible to earn up to 14 college credits through the dual enrollment programs with Vermont Technical College and the Community College of Vermont.
- Standard level students are eligible to earn up to 3 college credits through the dual enrollment program with the Community College of Vermont.

Program policies are geared to prepare students for college level expectations:

- Assignments are expected on the date due (50% credit is given for one day late, 0% credit beyond one day late)
- 70% of the student's grade is based on tests
- References are cited using the APA style manual

Participants of this program have been accepted at prestigious institutions such as:

Barton College	Ithaca College	Purdue University	University of Colorado-Boulder
Bay Path College	James Madison University	Quinnipiac University	University of Connecticut
Bishop's University	Johnson State College	Sacred Heart University	University of Mass, Amherst
Boston University	Keene State College	Salve Regina University	University of Mass, Boston
Calvin College	Lenoir-Rhyne College	Siena College	University of New England
Castleton State College	Lesley University	Simmons College	University of New Hampshire
Champlain College	Middlebury College	Slippery Rock College	University of Southern Maine
Colby-Sawyer College	Norwich University	St. Lawrence University	UNC-Greensboro
Concordia University	Northern Michigan University	St. Michael's College	University of Rhode Island
Drexel University	Northeastern University	Stonehill College	University of Vermont
Elon University	Plattsburgh State University	Suffolk University	Vermont Technical College
Gordon College	Plymouth State University	SUNY Plattsburgh	Westfield State College
Hofstra University	Providence College	Syracuse University	

If you have any questions about the program please don't hesitate to call us:

Wendy D. King, PT, M.Ed.  
(802) 864-2155

Betsy K. McLane, MT (ASCP)  
(802) 864-8522