BIOSTATISTICS AMP

All students must meet the Requirements for the Accelerated Master's Degree Programs

OVERVIEW

A master's degree in mathematics, statistics or biostatistics can be earned in a shortened time by careful planning during the junior and senior years at UVM. For example, the M.S. could be earned in just one additional year, because six credits of graduate level courses taken while an undergraduate can also be counted concurrently toward the M.S. degree requirements.

SPECIFIC REQUIREMENTS

Requirements for Admission to Graduate Studies for the Degree of Master of Science

Students should discuss the possibility of an Accelerated Master's Program in biostatistics with the respective program director as soon as they think they may be interested in this program. Students must declare their wish to enter the Accelerated Master's Program in writing to the statistics program director (it is recommended that this happen before the end of their junior year). They would apply to the Graduate College for admission, noting their interest in the Accelerated Master's Program. They can receive concurrent undergraduate and graduate credit for one or two graduate level courses, once admitted. No graduate credit can be counted for statistics courses earned prior to admission to the graduate program. Satisfactory scores on the general (aptitude) portion of the Graduate Record Examination are required.

Minimum Degree Requirements for the Degree of Master of Science

Option A (Thesis)		
A thirty credit program requiring twenty-four credits of course work. The program must include:		
BIOS 200	Med Biostatistics&Epidemiology	3
BIOS 221	Statistical Methods II	3
BIOS 223	Applied Multivariate Analysis	3
BIOS 231	Experimental Design	3
BIOS 251	Probability Theory	3
BIOS 261	Statistical Theory	3
STAT 360	Linear Models	3
Three additional course credits are required. BIOS 229 or BIOS 235 are recommended. Another 200/300 level statistics course (except BIOS 211, BIOS 241, STAT 281, BIOS 308) or (if approved) other courses in mathematics, quantitative methods, or specialized fields of application can be selected.		
Plus six semester hours of approved thesis research (BIOS 391)		6

Option B (Non-Thesis)		
A thirty credit program requiring twenty-seven credits of course work. The program must include:		
BIOS 200	Med Biostatistics&Epidemiology	3
BIOS 221	Statistical Methods II	3
BIOS 223	Applied Multivariate Analysis	3
BIOS 231	Experimental Design	3
BIOS 251	Probability Theory	3
BIOS 261	Statistical Theory	3
STAT 360	Linear Models	3
Six additional course credits are required. BIOS 229 or BIOS 235 are recommended. Another 200/300 level statistics course (except BIOS 211, BIOS 241, STAT 281, BIOS 308) or (if approved) other courses in mathematics, quantitative methods, or specialized fields of application can be selected.		
The research project requirement is met by taking three credits of:		
STAT 381	Statistical Research	3
or STAT 385	Consulting Practicum	

Both Options		
Under both plans, students must have or acquire a knowledge of the material in BIOS 211, attend the regular colloquium series and participate in the Statistics Student Associate Journal Club as part of their training. The comprehensive examination covers knowledge acquired in the core courses of the program. Under the non-thesis option, students will be expected to take major responsibility for a comprehensive data analysis or methodological research project, and are encouraged to present the results from the project.		

Comprehensive Examination

A written comprehensive examination is based on the courses STAT 211, STAT 221, STAT 223, STAT 231, STAT 251, and STAT 261. The comprehensive exam is typically held two weeks after the final exam in the spring semester. The student can take the exam a maximum of two times.

Requirements for Advancement to Candidacy for the Degree of Master of Science

Successful completion of any pre-requisite courses, and at least 15 graded graduate credits earned in compilation of the graduate GPA, including all core courses. A GPA of 3.00 or greater is also required.