

DEPARTMENT OF MATHEMATICS AND STATISTICS

Appendix C Example Program of Study

<i>Semester</i>	<i>Course Number</i>	<i>Course Name</i>	<i>Credit Hours</i>	<i>Area</i>
1	CBS520	Modeling and Computational Biology	4	Core
1	CBS530	Introduction to Structural and Molecular Biology	4	Core
1	MAT494	Mathematical Biology I	3	Mathematics elective I
2	CBS521	Case Studies in Computational Biosciences	4	Core
2	MAT 494	Mathematical Biology II	3	Mathematics elective II
2	BCH 462	General Biochemistry	3	Elective
3	MAT 423	Numerical Analysis I	3	Mathematics elective III
3	BIO 543	Molecular Genetics	3	SOLS elective I
3	STP 530	Applied Regression Analysis	3	Statistics Core
4	MAT 425	Numerical Analysis II	3	Mathematics IV
4	STP 531	Applied Analysis of Variance	3	Statistics Core
4	BIO 545	Populations: Evolutionary Genetics	3	SOLS elective II
5	MCB 555	Advanced Molecular and Cellular biology I	3	SOLS elective III
5	MAT 520	Numerical Linear Algebra	3	Mathematics elective V
5	MAT 598	Mathematical Methods of Genetic Analysis	3	Mathematics Elective VI
6	MCB 556	Advanced Molecular and Cellular Biology II.	3	SOLS elective IV
6	MAT 792	Research	3	Core
6	MAT 521	Iterative methods	3	Mathematics Elective VII
7	MAT 792	Research	3	Core
7	MAT 535	Spectral Methods	3	Mathematics Elective VIII
7	MAT 523	Numerical Optimization	3	Mathematics Elective IX
8	MAT 792	Research	6	Core
8	MAT 799	Dissertation	3	Core
9	MAT 799	Dissertation	9	Core