6. Degree Plan

The BS degree plan for ASFM program showing the sequence of courses suggested in each semester is presented in this section. In addition to the ASFM degree plan and for completeness, we also show the sequence of courses in the preparatory year program.

ACTUARIAL SCIENCE AND FINANCIAL MATHEMATICS (ASFM) CURRICULUM

COURS		TITLE	LT	LB	CR	COURS		TITLE	LT	LB	CR
Prep Year		•			Oit	Joon	<u> </u>	111122			<u> </u>
ENGL	001	Preparatory English I	15	5	8	ENGL	002	Preparatory English II	15	5	8
MATH	001	Preparatory Math I	3	1	4	MATH	002	Preparatory Math II	3	1	4
PYP	001	Preparatory Physical	2	0	2	PYP	002	Preparatory Computer	0	2	1
PYP	003	Sciences University Study Skills	0	2	1	ME	003	Sciences Preparatory Engineering	0	2	1
PE	001	Preparatory Physical Education I	0	2	1	PE	002	Technology Prep. Physical Educ. II	0	2	1
		Eddodion	20	10	16				18	12	15
			Total c		urs requ	uired in Prepa	aratory P	rogram: 31			
First Year	r (Fresh							-			
ENGL	101	English Composition I	3	0	3	IAS	111	Belief and its Conseq.	2	0	2
PE	101	Physical Education I	0	2	1	PE	102	Physical Education II	0	2	1
MATH	101	Calculus I	4	0	4	ENGL	102	English Composition II	3	0	3
ECON	101	Prin of Economics I	3	0	3	MATH	102	Calculus II	4	0	4
IAS	101	(MICRO) ^{VE} Practical Grammar	2	0	2	ACCT	201	Prin of Accounting I	2	2	3
ICS	102/ 103	Intro to Computing/ Computer	2	3	3	ECON	202	Prin of Economics II (MACRO) ^{VE}	3	0	3
		Programming in C				GS	xxx	General Studies I	3	0	3
			14	5	16				17	4	19
Second Y		ophomore) Objective Writing	2	0	2	IAS	212	Professional Ethics	2	0	2
ASFM	201 201	Financial	2	0	2	MATH	202	Elements of Differential	2	0	2
	201	Mathematics ^{FM}	3	U	3		202	Equations	3	U	3
MATH	201	Calculus III	3	0	3	FIN	250	Financial Management	3	0	3
ACCT	202	Prin of Accounting II (investment acct)	2	2	3	MATH	280	Intro to Linear Algebra	3	0	3
STAT	213	Statistical Methods for Actuaries ^{vs}	2	2	3	ASFM	288	Actuarial Lab I	0	1	1
ENGL	214	Technical Report Writing	3	0	3	STAT	301	Intro to Probability Theory ^p	3	0	3
			15	4	17				14	1	15
Third Yea	ır (Juni	or)							_	_	_
IAS	311	Islamic Shariah	2	0	2	MATH	322	Quantitative Meth for Actuaries	3	0	3
STAT	302	Statistical Inference	3	0	3	FIN	430	Risk Mgt, Conventional and Islamic Insurance	3	0	3
STAT	310	Regression Analysis ^{vs}	3	0	3	STAT	460	Time Series ^{vs}	3	0	3
FIN	320	Investments ^{VF}	3	0	3	FIN	470	Financial Engineering	3	0	3
ASFM	381	Actuarial Contingencies I ^c	3	0	3	ASFM	482	Actuarial Contingencies II ^c	3	0	3
ASFM	388	Actuarial Lab II	0	1	1	ASFM	483	Actuarial Risk Theory and Credibility	3	0	3
STAT	416	Stochastic Process for Actuaries ^M	3	0	3			,			
			17	1	18				18	0	18
						ASFM	350	Third year Summer Cooperative work	0	0	0
Fourth	Year ((Senior)									
ASFM	351	Cooperative work	0	0	9	xxx	xxx	Free Elective I	3	0	3
		(continued) Cooperative work				ASFM	XXX	ASFM Elective I	3	0	3
ASFM	352	(continued)	0	0	0						
						ASFM	XXX	ASFM Elective II	3	0	3

0	0	9		.10	Transactions in Islam	14	0	14
			GS IAS	xxx 418	General Studies II Contemporary Financial	2	0	2

Total credit hours required in Degree Program: 126

Total credit hours required in General Education Hours: 61 Total credit hours required in Major Requirement Hours: 47

Cooperative Work Hours: 9

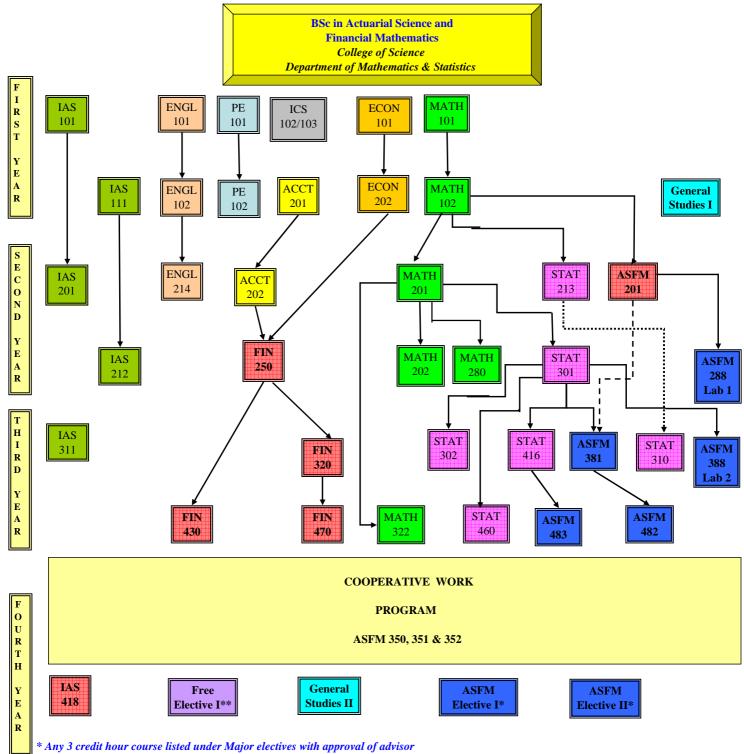
Total credit hours required in Major Electives: 6
Total credit hours required in Other Electives: 3

VF	courses covering Finance topics for the SOA Validation by Educational Experience (VEE)
VE	courses covering Economics topics for the SOA Validation by Educational Experience (VEE)
VS	courses covering Applied Statistical Methods topics for the SOA Validation by Educational Experience (VEE)
Р	courses covering topics for the SOA professional exam P (Probability)
F	courses covering topics for the SOA professional exam FM (Financial Mathematics)
M	courses covering topics for the SOA professional exam M (Actuarial Models)
С	courses covering topics for the SOA professional exam C (Constructing & Validating Actuarial Models)

Blue colored font = Actuarial Related courses

Red colored font = Finance and Business Related courses

ASFM = Actuarial Science and Financial Mathematics.



** Any 3 credit hour course including those listed under Major electives with approval of advisor