Howard Payne University

General Schedule for a B.S. in Mathematics

Non-education major; Even-numbered starting year

Sophomore Fall Sophomore Spring	Freshman Fall	<i>y</i>	Freshman Spring	
BIB 1303 Intro. Old Testament	GEN 1101 University Seminar	(1)	BIB 1304 Intro. New Testament	(3)
Life or Physical Science course with lab	5	` ′		
CIS 1339 Intro. to Information Technology (3) MAT 2347 Discrete Mathematics (3) MAT 2451 Calculus I (4) KIN 1100 Principles of Personal Fitness (1) 18 hrs	ENG 1311 English Composition I	` ′	1	
MAT 2347 Discrete Mathematics (3) (4) (4) (1		, ,	1	. ,
MAT 2451 Calculus I	· · · · · · · · · · · · · · · · · · ·		COM 1310 Fund. Human Communication	
Sophomore Fall Sophomore Spring	MAT 2451 Calculus I			17 hrs
Sophomore Fall Sophomore Spring	KIN 1100 Principles of Personal Fitness			
ENG 2351, 53, or 73 English Literature (3) Physical or Life Science (4) MAT 3451 Differential Equations (4) History course (HIS 1310 recommended) (3) MAT 3311 Abstract Algebra (3) MAT 3361 Calculus III (3) CIS 1359 Programming Logic (3) MAT 3302 Linear Algebra (3) KIN Course (Class A) (1) 14 hrs Junior Fall	-	18 hrs		
Physical or Life Science	Sophomore Fall		Sophomore Spring	
Physical or Life Science	ENG 2351, 53, or 73 English Literature	(3)	GOV 2311 American Government	(3)
History course (HIS 1310 recommended) (3) MAT 3311 Abstract Algebra (3) MAT 3361 Calculus III (3) CIS 1359 Programming Logic (3) KIN Course (Class A or B) (1) 14 hrs		` /		. ,
MAT 3361 Calculus III (3) CIS 1359 Programming Logic (3) MAT 3302 Linear Algebra (3) KIN Course (Class A or B) (1) KIN course (Class A) (1) 14 hrs Junior Spring MAT 4361 Complex Analysis (3) Psychology or Sociology course (3) Fine Arts course (3) CIS Prog. course (beyond CIS 1359) or (3) Electives (12) MAT 4371 Intro. to Numerical Analysis (3) Electives (5) 14 hrs GEN 4100 Senior Seminar (1) MAT 4441 Applied Probability & Statistics (4) Electives (15) Electives (15)			<u> </u>	
KIN course (Class A) (1) 17 hrs Junior Fall MAT 3322 Geometry Psychology or Sociology course (3) CIS Prog. course (beyond CIS 1359) or Electives (12) MAT 4371 Intro. to Numerical Analysis (3) 12-15 hrs Electives (1) Senior Fall GEN 4100 Senior Seminar Electives (1) Electives (1) MAT 4441 Applied Probability & Statistics (4) Electives (15)	MAT 3361 Calculus III	(3)	CIS 1359 Programming Logic	(3)
17 hrs Junior Fall Junior Spring	MAT 3302 Linear Algebra	(3)	KIN Course (Class A or B)	
Junior Fall MAT 3322 Geometry MAT 3322 Geometry Psychology or Sociology course (3) CIS Prog. course (beyond CIS 1359) or MAT 4371 Intro. to Numerical Analysis (5) 12-15 hrs Senior Fall GEN 4100 Senior Seminar Electives (1) Electives (15) MAT 4441 Applied Probability & Statistics (4) Electives (15)	KIN course (Class A)	(1)		14 hrs
MAT 4361 Complex Analysis Fine Arts course Electives (3) Senior Fall GEN 4100 Senior Seminar Electives (3) MAT 3322 Geometry Psychology or Sociology course (3) CIS Prog. course (beyond CIS 1359) or MAT 4371 Intro. to Numerical Analysis (3) Electives (12) MAT 4371 Intro. to Numerical Analysis (5) 14 hrs MAT 4441 Applied Probability & Statistics (4) Electives (15) Electives (16)		17 hrs		
MAT 4361 Complex Analysis Fine Arts course Electives (3) CIS Prog. course (beyond CIS 1359) or MAT 4371 Intro. to Numerical Analysis (3) Electives (12) MAT 4371 Intro. to Numerical Analysis (5) 14 hrs Senior Fall GEN 4100 Senior Seminar Electives (15) Electives (15) MAT 4441 Applied Probability & Statistics (4) Electives (15)	Junior Fall		Junior Spring	
Fine Arts course Electives (3) CIS Prog. course (beyond CIS 1359) or MAT 4371 Intro. to Numerical Analysis (3) 12-15 hrs Electives Senior Fall GEN 4100 Senior Seminar Electives (1) Electives (1) Electives (15) MAT 4441 Applied Probability & Statistics (4) Electives (15)			MAT 3322 Geometry	(3)
Electives (12) MAT 4371 Intro. to Numerical Analysis (3) 12-15 hrs Electives (5) 14 hrs Senior Fall Senior Spring GEN 4100 Senior Seminar (1) Electives (15) (15) Electives (15)	MAT 4361 Complex Analysis	(3)	Psychology or Sociology course	(3)
Senior Fall Senior Spring GEN 4100 Senior Seminar Electives (1) (15) Electives (1) (15) Electives (11) (15) Electives	Fine Arts course	` /	, ,	
Senior Fall Senior Spring GEN 4100 Senior Seminar Electives (1) (15) MAT 4441 Applied Probability & Statistics (4) Electives (11) 15 bree	Electives	` /		(3)
Senior Fall GEN 4100 Senior Seminar Electives Senior Spring MAT 4441 Applied Probability & Statistics (4) Electives (15) MAT 4441 Applied Probability & Statistics (4) Electives		12-15 hrs	Electives	
GEN 4100 Senior Seminar (1) Electives (15) MAT 4441 Applied Probability & Statistics (4) Electives (11) 15 brs				14 hrs
Electives (15) Electives (17)	Senior Fall		*	
Electives (13)		, ,		(11)
	Liectives	, ,		, ,

123-126 hrs

BIB: Biblical Studies BIO: Biology CIS: Computer Information Systems

COM: Communications ENG: English KIN: Kinesiology GEN: General Education HIS: History MAT: Mathematics

GOV: Government EDU: Education

Howard Payne University

General Schedule for a B.S. in Mathematics

Secondary-education major; Even-numbered starting year

Freshman Fall		Freshman Spring	
GEN 1101 University Seminar	(1)	BIB 1304 Intro. New Testament	(3)
BIB 1303 Intro. Old Testament	(3)	ENG 1312 English Composition II	(3)
ENG 1311 English Composition I	(3)	Life or Physical Science course with lab	(4)
CIS 1339 Intro. to Information Technology		MAT 2461 Calculus II	(4)
MAT 2347 Discrete Mathematics	(3)	COM 1310 Fund. Human Communication	(3)
MAT 2451 Calculus I	(4)		17 hrs
KIN 1100 Principles of Personal Fitness	(1)		
-	18 hrs		
Sophomore Fall		Sophomore Spring	
ENG 2351, 53, or 73 English Literature	(3)	HIS 1320 U.S. History Since 1877	(3)
HIS 1310 U.S. History to 1877	(3)	MAT 4341 Probability and Statistics	(3)
CIS 1359 Programming Logic	(3)	MAT 3451 Differential Equations	(4)
MAT 3361 Calculus III	(3)	MAT 4351 Real Analysis	(3)
MAT 3302 Matrix & Linear Algebra	(3)	(or MAT 4361 Complex Analysis in the next	
KIN course (Class A)	(1)	KIN course (Class A or B)	(1)
	16 hrs		1-14 hrs
Junior Fall		Junior Spring	
EDU 3300 Philosophical Foundations	(3)	EDU 3302 Teaching & Learning II	(3)
EDU 3301 Teaching & Learning I	(3)	REA 4346 Literacy Instruction Content in Area	
GOV 2311 American Government	(3)	GOV 2340 Social Studies of Texas	(3)
Fine Arts Course	(3)	MAT 3322 Geometry	(3)
MAT 4361 Complex Analysis (or MAT 4	1351	MAT 3302 Abstract Algebra	(3)
Real Analysis in the prior Spring)	(3)	Elective	(1)
12	2-15 hrs		16 hrs
Senior Fall		Senior Spring	
GEN 4100 Senior Seminar	(1)	EDU 4375 Educational Technology Appl.	(3)
EDU 4302 Secondary Methods	(3)	EDU 4890 Clinical Teaching in Sec. Schools	(8)
EDU 4100 TEXES Review	(1)		11 hrs
MAT 3481 Math for Secondary Teachers	(4)		
MAT 4000 TEXES Review for Sec. Teach.	(0)		
CIS Prog. course (beyond CIS 1359) or			
MAT 4371 Numerical Analysis	(3)		
		1	
Electives	(3)		

116-123 hrs

BIB: Biblical Studies BIO: Biology CIS: Computer Information Systems

COM: Communications ENG: English KIN: Kinesiology GEN: General Education HIS: History MAT: Mathematics

GOV: Government EDU: Education

Mathematics (BA, BS)

First Semester	Second Semester
2445 Accelerated Precalculus OR	451 Calculus I OR
451 Calculus I	461 Calculus II
2347 Discrete Math	03 Introduction to Old Testament
11 English Composition I	12 English Composition II
39 Intro. to Information Technology	310 Fund. of Human Comm.
Physical Science course from approved list of	Physical Science course from approved list of
general education science courses.	general education science courses.
L00 Prin of Personal Fit and Well	ırse (Class A or B)
01 University Seminar	

^{*}If students come to HPU with credit for MAT 1351 (College Algebra) and MAT 2345 (Precalculus) they will start with Calculus I. If not, students should take MAT 2445. Those who do not meet the prerequisites for MAT 2445 must take MAT 1351 and MAT 2345 before taking Calculus I.

^{**} MAT 2347 requires MAT 1351 as a pre-requisite. If they concurrently enroll in MAT 2445 or MAT 2451, they may take MAT 2347.