

### SAMPLE Plan of Study for Core Mathematics (MATH)

	MATH requirements		Science 2007 Core requirements				Electives		Hours
<b>Semester 1</b>									
Course Title Hours	MA 16100, 16500 Calculus I 4-5		ENGL 10600/10800 Freshman Comp 3-4	Language 10100 <sup>2</sup> 3-4			MA 10800 Intro Math 1	Free/Minor 3	14-17
<b>Semester 2</b>									
Course Title Hours	MA 16200, 16600, 17300, 18100 Calculus II 4-5		CS 17700 Programming 4	Language 10200 <sup>2</sup> 3-4	SCI 21000 <sup>3</sup> Teamwork 1	Teamwork <sup>3</sup> Experience	Free/Minor 3		15-17
<b>Semester 3</b>									
Course Title Hours	MA 26100, 17400, 18200, 27100 Calculus III 4-5		Lab Science I 3-4	Language/Culture <sup>2</sup> 3-4			MA 30100 Intro Analysis 3	Free/Minor 3	16-19
<b>Semester 4</b>									
Course Title Hours	MA 35100 Linear Alg 3	STAT 35000 Statistics 3	Lab Science II 3-4	COM 21700 Writing/Present 3			Free/Minor 3		15-16
<b>Semester 5</b>									
Course Title Hours	MA 36600 Diff Eqn 4	MA 34100, 44000 Analysis 3		General Education 3			Free/Minor 3	Free/Minor 3	16
<b>Semester 6</b>									
Course Title Hours	MA 35300 Linear Alg 2 3	MA 36200, 44200, 51000 Vector Calc 3		General Education I 3			Free/Minor 3	Free/Minor 3	15
<b>Semester 7</b>									
Course Title Hours	MA <sup>4</sup> 3	MA 45300, 45000 Algebra 3	Multidisciplinary <sup>1</sup> 3-4	General Education II 3			Free/Minor 3	Free/Minor 0-3	15-19
<b>Semester 8</b>									
Course Title Hours	MA <sup>4</sup> 3	MA <sup>4</sup> 3		Great Issues 3			Free/Minor 3	Free/Minor 3	15

<sup>1</sup> Multidisciplinary--can be either an approved course, minor, or dual major

<sup>2</sup> Language and Culture requirement may also be satisfied via an approved Study Abroad for a semester

<sup>3</sup> SCI 21000 and experience is one of the many options for teamwork requirement. See <https://www.science.purdue.edu/undergraduate-curriculum> for more options

<sup>4</sup> Any three courses from among the following (but no more than two from each group):

Analysis: MA 42500 (52500), 42800, 44000 (which can be taken in addition to 34100), 44200 [pre-requisite MA 44000], 52100

Algebra: MA 45400

Differential Equations: MA 52000, 52300, 54300

Discrete Mathematics, Foundations: MA 37500, 38500, CS 38100, CS 48300

Geometry: MA 46200, 57100

Computer Science: CS 24000, 25100

Numerical Analysis: CS 31400 (51400), 41500, 51500, 52000

Statistics, Probability: STAT 41600 (51600), 41700 (51700)

Not all courses offered every semester or year. Other choices may be approved. See your advisor.

\*Total\*: 121-134

\*Total\* must be  $\geq$  to 124