

Additional courses to complete a math-based minor or math second major for 2009-10 bulletin

- courses are counted in units of 4 or 5 hour courses
- guideline only, in some cases the number of estimated AP credit and overloads may be off by a course or two

Area Minor in Mathematics, Statistics, or Computational Science

Primary Major	Required Math Courses	Sci/Math/Tech/ Area Electives	Free Electives	App Domain			Available for Math Minor		Available for Stats Minor		Available for CompSci Minor		Notes
				Concentration Electives	Computing Course	CompSci App Course*	AP credits - Overloads required	AP credits - Overloads required	AP credits - Overloads required				
Applied Biology	5		3	2		1	10	0	10	1	10	0	
Biochemistry	5			6			11	0	11	0	10	0	
Biomedical Engineering	6			3		1	9	1	8	3	10	0	
Chemical Engineering	6		2	1		0.5	9	1	8	3	9.5	0.5	
Chemistry	5			9			14	0	14	0	14	0	
Civil Engineering	6		5				11	0	10	1	11	0	
Computer Engineering	7		2	2		1	11	0	10	1	11	0	
Computer Science	7		3	5			15	0	15	0	14	0	math minor not allowed
Economics	9			10			19	0	19	0	18	0	math minor not allowed
Electrical Engineering	6		4	2		1	12	0	11	0	13	0	
Engineering Physics	6		1	1		1	8	2	7	4	10	0	
Mechanical Engineering	6		2	2		2	12	0	11	0	13	0	
Optical Engineering	6			3		1	9	1	8	3	10	0	
Physics	7		5	4			16	0	15	0	16	0	
Software Engineering	8			3		4	15	0	15	0	15	0	three math-only domain tracks available

* there may be several applicable courses but only one will count towards the CompSci minor

Mathematics as Second Major

Primary Major	Required Math Courses	Sci/Math/Tech/ Area Electives	Free Electives	Domain Track Electives	Senior Design or Thesis Substitution	Available for double major		Notes
						AP credits - Overloads required	AP credits - Overloads required	
Applied Biology	5		3	2	2	12	5	
Biochemistry	5			6		11	6	
Biomedical Engineering	6		0	3	1.5	10.5	6.5	
Chemical Engineering	6		2	1	1.5	10.5	6.5	
Chemistry	5			9	1.5	15.5	1.5	
Civil Engineering	6		5		1.5	12.5	4.5	
Computer Engineering	7		2	2	1.5	12.5	4.5	
Computer Science	7		3	5	1.5	16.5	0.5	
Economics	9			10	1	20	0	
Electrical Engineering	6		4	2	1.5	13.5	3.5	
Engineering Physics	6			1	1.5	8.5	8.5	
Mechanical Engineering	6		2	2	1.5	11.5	5.5	
Optical Engineering	6			3	1.5	10.5	6.5	
Physics	7		5	4	1.5	17.5	0	
Software Engineering	8			3	4	16.5	0.5	three math-only domain tracks available

* 6 hours of the senior design courses from the primary major could be applied to the 8 hour math senior project, approval of dept head required.

* 8 hours of the senior thesis courses from the primary major could be applied to the 8 hour math senior thesis, approval of dept head required.