

Math 3AB: Calculus for Life Sciences Students

Math 3C: Probability for Life Sciences Students

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Math 3ABC is the "fast" calculus sequence at UCLA. It aims to provide students in three terms with the fundamental ideas and tools of calculus that will put them in a good position for understanding more technical work in their own areas. The course sequence covers basic topics in single-variable and multi-variable calculus. This includes some material on ordinary differential equations such as those governing population-growth models. The course also covers some material on calculus-based probability theory, including continuous probability distributions, the normal distribution, and the idea of hypothesis testing.

The course sequence 3ABC is suitable for students who want to be introduced to the powerful tools that the calculus provides without going through some of the more technical material required of the students in engineering and the physical sciences. While examples and illustrations are drawn from the life sciences when possible, the course sequence is also suitable for students in the social sciences and humanities who do not require a heavy mathematical background.

Students in 3ABC are expected to have a good background in precalculus mathematics, including polynomial functions, trigonometric functions, and exponential and logarithm functions. In order to enroll in 3A, students must either take and pass the [Mathematics Diagnostic Test](#) at the specified minimum performance level, or take and pass Math 1 at UCLA with a grade of C- or better.

Many of the students in Math 3ABC take Physics 6, either concurrently or later. The topics covered in 3ABC are selected so as to provide students with the prerequisite foundations for Physics 6.

Ample tutoring support is available for students in the course, including the walk-in tutoring service of the Student Mathematics Center at MS 3974.

Recent enrollment statistics in Math 3ABC are given by the following tables.

Recent Enrollment Statistics

Math 3A

Year	Fall	Winter	Spring
1993-1994	520 (3 sections)	311 (2 sections)	121 (1 section)
1994-1995	578 (3 sections)	367 (2 sections)	149 (1 section)
1995-1996	573 (3 sections)	304 (3 sections)	95 (1 section)
1996-1997	534 (3 sections)	287 (2 sections)	111 (1 section)
1997-1998	459 (2 sections)	206 (2 sections)	101 (1 section)
1998-1999	401 (2 sections)	224 (2 sections)	94 (1 section)

1999-2000	351 (3 sections)	184 (2 sections)	89 (1 section)
2000-2001	282 (2 sections)	152 (1 section)	(no section)
2001-2002	266 (2 sections)	172 (1 section)	(no section)
2002-2003	266 (2 sections)	172 (1 section)	(no section)
2003-2004	303 (2 sections)	195 (1 section)	(no section)

Math 3B

Year	Fall	Winter	Spring
1993-1994	316 (2 sections)	505 (3 sections)	306 (2 sections)
1994-1995	379 (2 sections)	553 (3 sections)	329 (2 sections)
1995-1996	344 (2 sections)	518 (3 sections)	309 (2 sections)
1996-1997	271 (2 sections)	491 (3 sections)	284 (2 sections)
1997-1998	262 (2 sections)	417 (3 sections)	188 (2 sections)
1998-1999	268 (2 sections)	375 (3 sections)	243 (2 sections)
1999-2000	238 (2 sections)	316 (3 sections)	150 (1 section)
2000-2001	193 (1 section)	246 (2 sections)	124 (1 section)
2001-2002	176 (1 section)	279 (2 sections)	159 (1 section)
2002-2003	192 (1 section)	268 (2 sections)	175 (1 section)
2003-2004	209 (2 sections)	348 (2 sections)	

Math 3C

Year	Fall	Winter	Spring
1993-1994	229 (1 section)	247 (1 section)	353 (2 sections)
1994-1995	270 (2 sections)	287 (2 sections)	431 (2 sections)
1995-1996	320 (2 sections)	291 (2 sections)	421 (2 sections)
1996-1997	294 (2 sections)	211 (2 sections)	377 (2 sections)
1997-1998	256 (2 sections)	206 (1 section)	363 (2 sections)
1998-1999	216 (2 sections)	175 (1 section)	334 (2 sections)
1999-2000	227 (2 sections)	177 (1 section)	278 (2 sections)
2000-2001	183 (1 section)	180 (1 section)	270 (2 sections)
2001-2002	190 (1 section)	169 (1 section)	305 (2 sections)
2002-2003	218 (1 section)	207 (1 section)	276 (2 sections)
2003-2004	249 (1 section)	187 (1 section)	