

Careers with a Mathematical Economics Major

<http://math.richmond.edu/major-minor/mathecon.html>

-driven and interconnected business world. The Mathematical Economics major provides a course of study that allows students to not only acquire some of these highly valued analytical skills, but also integrates that knowledge with a deeper understanding of the business world and the social sciences. This combination of mathematics, statistics/data, and economics knowledge makes Mathematical Economics majors highly competitive in the job market and excellent candidates for graduate school.

The Mathematical Economics major provides students with a structured study towards several post-graduate paths. These focal areas includes Actuarial Sciences, Data Science, Economic Consulting, Economics Graduate School, Engineering, Finance, and Statistics Graduate School. Students interested in other post-graduate paths such as medical school, entrepreneurship, etc. should discuss these plans with their academic advisor and/or the program coordinators towards choosing electives and non-major courses that complement their plans.

Provided below is a list of suggested coursework for each of the focal paths (advisors are happy to help chart alternative paths too):

Actuarial Sciences

Suggested coursework for Mathematical Economics majors focusing in Actuarial Sciences:

Elective Courses: ECON 370, MATH 309, DSST 329, DSST 330

Non-Major Courses/Exams: ACCT 201, FIN 360, FIN 361/366, ECON 370, ECON 373, P Actuarial Exam, FM Actuarial Exam

Other considerations: Take DSST 329 early. Talk to a Math-Econ coordinator about fulfilling the VEE requirements.

Note: Students considering an actuarial career should visit <http://www.beanactuary.org/> to get more information about the process towards becoming an actuary, including information about the P & FM exams and how to fulfil VEE requirements.

Consulting

Suggested coursework for Mathematical Economics majors focusing in Consulting:

Elective Courses: ECON 242, ECON 300, ECON 370, ECON 373, DSST 389

Non-Major Courses: CMSC 221, DSST 289

Other considerations: Consider ECON 249 workshops. Talk to a Math-Econ coordinator about the possibility of attempting the consulting-sequence in the Business School.

Data Science/Analytics

Suggested coursework for Mathematical Economics majors focusing in Data Science:

Elective Courses: ECON 242, ECON 370, ECON 373, DSST 329, DSST 330, DSST 389

Non-Major Courses: DSST 289, CMSC 221, ECON 249 Workshops

Other considerations: Take CMSC 150/ECON 242 & ECON 270 early and look out for special topics offerings in data-related topics. Consider taking the Data Science & Statistics Minor. Also consider further learning opportunities to improve your skills in languages such as R, Python, and SQL (e.g. ECON 249 workshops). Finally, students considering a data science career will benefit from adding more computer science courses such as CMSC 315, CMSC 325, CMSC 326, CMSC 327, CMSC 328, CMSC 329, CMSC 330, CMSC 331, CMSC 332, CMSC 333, CMSC 334, CMSC 335, CMSC 336, CMSC 337, CMSC 338, CMSC 339, CMSC 340, CMSC 341, CMSC 342, CMSC 343, CMSC 344, CMSC 345, CMSC 346, CMSC 347, CMSC 348, CMSC 349, CMSC 350, CMSC 351, CMSC 352, CMSC 353, CMSC 354, CMSC 355, CMSC 356, CMSC 357, CMSC 358, CMSC 359, CMSC 360, CMSC 361, CMSC 362, CMSC 363, CMSC 364, CMSC 365, CMSC 366, CMSC 367, CMSC 368, CMSC 369, CMSC 370, CMSC 371, CMSC 372, CMSC 373, CMSC 374, CMSC 375, CMSC 376, CMSC 377, CMSC 378, CMSC 379, CMSC 380, CMSC 381, CMSC 382, CMSC 383, CMSC 384, CMSC 385, CMSC 386, CMSC 387, CMSC 388, CMSC 389, CMSC 390, CMSC 391, CMSC 392, CMSC 393, CMSC 394, CMSC 395, CMSC 396, CMSC 397, CMSC 398, CMSC 399, CMSC 400, CMSC 401, CMSC 402, CMSC 403, CMSC 404, CMSC 405, CMSC 406, CMSC 407, CMSC 408, CMSC 409, CMSC 410, CMSC 411, CMSC 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Finance

Suggested coursework for Mathematical Economics majors focusing in Finance:

Elective Courses: ECON 200, ECON 370, ECON 373, MATH 309, MATH 312

Non-Major Courses/Exams: ACCT 201, ACCT 301, FIN 360, 3-5 300/400-level Finance Courses (For tracks offered by the Finance department visit <https://robins.richmond.edu/undergraduate/departments/finance/concentration.html>)

Other considerations: Consider applying for the Student Managed ETF Fund.

Pre-Engineering (3-2 Program)

Suggested coursework for Mathematical Economics majors focusing in the 3-2 program:

Elective Courses: Varies based on engineering major choice (see link below).

Non-Major Courses/Exams: PHYS 131, PHYS 132, CHEM 141, FYS + 6/7 non-technical courses

Other considerations: For information about major specific course requirements see <https://preengineering.richmond.edu/dual-degree/index.html>

Public Policy

Suggested coursework for Mathematical Economics majors focusing in Public Policy:

Elective Courses: Any ECON 200/300-Level policy related electives, DSST 329, MATH 300, MATH 304, MATH 312, DSST 389, DSST 395 (policy related topic).

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