

Bachelor of Science in Statistics – Actuarial Science Concentration

Revised: 11/10/2017

Wright State Core – 40 hours	Departmental Requirements – 41 hours
<p>Element 1 Communications ENG 1100 Academic Writing and Reading ENG 2100 Research and Argument</p> <p>Element 2 Mathematics MTH 2300 Calculus I</p> <p>Element 3 Global Traditions Choose one interdisciplinary course: AFS 2000 (IW, MC) CST 2430 (IW, MC) RST 2620 (IW, MC) ATH 2500 CST 2510 (IW, MC) RST 2710 (IW, MC) CS 1000 EC 2100 RST 2810 (IW, MC) CST 2210 (IW, MC) EC 2500 (IW, MC) RST 2910 (IW, MC) CST 2310 (IW, MC) EC 2900 (IW, MC) RST 2920 (IW, MC) CST 2320 (IW, MC) ED 2100 (MC) URS 2000 (IW, C) CST 2410 (MC) ML 2030 CST 2420 (IW, MC) RST 2610 (IW, MC)</p> <p>Choose one History course: CLS 1500 HST 1100 HST 1200</p> <p>Element 4 Arts/Humanities Choose one course: ART 2140 ENG 2050 (IW, MC) PHL 2040 (IW) CLS 2040 (IW) MP 1310 PHL 2100 CST 2310 (IW) MUS 1210 REL 2040 (IW) CST 2420 (IW) MUS 2140 TH 2140 ENG 2040 (IW) MUS 2900 (IW, MC) UH 2010 (IW)</p> <p>Element 5 Social Science EC 2040 Principles of Microeconomics Choose one course from the list below: ATH 2200 SOC 2000 (IW) FIN 2050 SW 2720 (IW, MC) PLS 2000 UH 2020 (IW) PSY 1010 WMS 2000 (IW, MC)</p> <p>Element 6 Natural Science Choose two courses from the list below: ATH 2100 CHM 1060 PHY 1060/1060L BIO 1050 CHM 1210/1210L PHY 2400/2400L BIO 1060 EES 1060 PHY 2410/2410L BIO 1070 EES 1070 SM 1010 (IW) BIO 1120 HPR 2500 BIO 1150 PHY 1050/1050L</p> <p>Additional Core Courses MTH 2310 Calculus II ACC 2010 Accounting Principles I</p> <p>Multicultural Competence Two Multicultural Competence (MC) courses from the Wright State Core, Study Abroad, or Service Learning courses</p> <p>Writing Across the Curriculum Two Integrated Writing (IW) courses from the Wright State Core</p>	<p>Required Core Courses (32 hours) MTH 2320 Calculus III (4 hours) MTH 2530 Elementary Linear Algebra (3 hours) MTH 3120 Theory of Interest (4 hours, Exam FM/1) STT 3600 Applied Statistics I (3 hours) STT 3610 Applied Statistics II (3 hours) STT 4110 Applied Time Series (3 hours) STT 4610 Theory of Statistics I (4 hours, Exam P/2) STT 4660 Statistical Methods I (4 hours) STT 4670 Statistical Methods II (4 hours)</p> <p>Electives (9 hours) From department approved electives (See list below)</p> <p>Related Course Requirements – 16 hours CS 1160 or CS 1180 or CEG 2170 (4 hours) EC 2050 Principles of Macroeconomics FIN 2210 Financial Management I FIN 3110 Financial Management II Once course from: ACC 2020 Accounting Principles II EC 4100 Mathematical Models for Economics FIN 3260 Risk and Insurance FIN 4130 Financial Derivatives</p> <p>General Elective - 23 hours Choose from the Wright State University Undergraduate Catalog</p> <p>Department Approved Elective Courses STT 4210 Sampling Design (3 credits) STT 4240 Quality Control and Improvement (3 credits) STT 4260 Survival Analysis (3 credits) STT 4310 Statistical Methods for Clinical Trials (3 credits) STT 4620 Theory of Statistics II (4 credits) STT 4640 Computational Statistics (3 credits) MTH 2800 Writing Mathematical Proofs (3 credits) MTH 3060 Mathematical Modeling (3 credits) MTH 3260 Numerical Methods (3 hours) MTH 4070 Optimization Techniques (3 credits) MTH 4150 Scientific Computation (3 credits) MTH 4310 Real Variables I (3 credits) MTH 4320 Real Variable II (3 credits) MTH 4550 Advanced Linear Algebra (3 credits) MTH 4810 Methods of Applied Mathematics I (3 credits) MTH 4820 Methods of Applied Mathematics II (3 credits)</p>