

5-year Fast Track

BS Mathematics w/ a Concentration in Data Science

MS Health Informatics and Analytics

Fall Year 1 (16)

- MATH 185 Foundations of Mathematics (3)
- MATH 240 Calculus I (4)
- Gen Ed – UCT 101 Core Texts I (3)
- Gen Ed – UCR 101 Core Writing (3)
- Gen Ed – UCHW 120 Concepts of Health and Wellness (2)
- Gen Ed – UCCG 101 Common Ground: First Year Experience (1)

Spring Year 1 (17)

- MATH 260 Calculus II (4)
- COSC 110 Intro to Computer Programming I (3)
- Gen Ed – UCT 102 Core Texts II (3)
- Gen Ed – USC 102 Core Writing Seminar (3)
- Gen Ed – Inquiry Area: Natural World (4)

Fall Year 2 (16)

- MATH 205 Intro to Data Science (3)
- MATH 280 Intro to Adv Math (3)
- MATH 285 Sophomore Seminar (1)
- Gen Ed – UCBF 101 Biblical Foundations I (3)
- Gen Ed - Inquiry Area: Human Experience (3)
- Gen Ed – Inquiry Area: Social World (3)

Spring Year 2 (15)

- MATH 301 Statistical Inference (3)
- MATH 340 Linear Algebra (3)
- Gen Ed – UCBF 102 Biblical Foundations II (3)
- Gen Ed – Inquiry Area: Creative Expression (3)
- Gen Ed – Inquiry Area: Global Engagement (3)

Fall Year 3 (16)

- MATH 385 Junior Seminar (1)
- MATH 401 Intro to Machine Learning (3)
- MATH Elective (3)
- Gen Elec (3)
- Gen Elec (3)
- Gen Elec (3)

Spring Year 3 (15)

- MATH 305 Statistical Modeling (3)
- COSC 315 Database Systems (3)
- Gen Elec (3)
- Gen Elec (3)
- Gen Elec (3)

Fall Year 4 (16)

- MATH 405 Data Science Practicum (3)
- MATH 485 Senior Seminar (1)
- MATH Elective (3)
- HIIM 501 Survey of Health Informatics & Analytics Infrastructure (3) – Counts as Gen Elective toward BS degree
- HIIM 650 Introduction to Biomedical Informatics & Analytics (3) – Counts as Gen Elective toward BS degree
- PHLT 500 Health Systems, Organizations & Policy (3) – Counts as Gen Elective toward BS degree

Spring Year 4 (15)

- MATH Capstone (3)
- Gen Elec (3)
- Gen Elec (3)
- HIIM 502 Electronic Health Records in Diverse Practice Settings (3) – this course and all subsequent graduate courses count toward MSHIA degree
- HIIM 653 Structured/Unstructured Data Design & Analytics (3)

Summer Year 4 (9)

- HIIM 651 Visual Analytics & Predictive Modeling (3)
- MHCA 520 Healthcare Project Management (3)
- PHLT 504 Biostatistics for Public Health Professionals (3)

Fall Year 5 (9)

- HIIM 600 Managing the Health Informatics & Analytics System (3)
- MHCA 601 Healthcare Ethics (3)
- MSHIA Elective I (3)

Spring Year 5 (6)

- HIIM 699 Health Informatics & Analytics Capstone (3)
- MSHIA Elective II (3)