Courses offered at Rice University

See this link to the course catalog and the deadlines for inter-institutional course registration for non-Rice students.

Please note that Rice only publishes the following semester's courses during the prior semester (not a year ahead), so look at past semesters to learn whether a course is offered in the Fall or Spring semester so you can plan your curriculum timeline.

**Bioengineering**

- BIOE 481 Computational Neuroscience and Neural Engineering
- BIOE 485 Fundamentals of Medical Imaging I (cross-list COMP 485, ELEC 485)
- BIOE 486 Fundamentals of Medical Imaging II (cross-list COMP 486, ELEC 486)
- BIOE 552 Intro to Computational Systems Biology: Modeling & Design Principles of Biochem Networks
- BIOE 507 Systems Biology of Blood Vessels
- BIOE 518 Introduction to Computational Biology
- BIOE 548 Neural Signal Processing / Machine Learning for Neuro Engineering (Cross-list COMP 548)
- BIOE 589 Computational Molecular Bioengineering/Biophysics

**BioSciences - includes Ecology & Evolutionary Biology graduate programs**

- EBIO 333 Evolutionary Bioinformatics

**Computational and Applied Mathematics**

- CAAM 335 Matrix Analysis
- CAAM 353 Computational Numerical Analysis
- CAAM 378, Introduction to Operations Research and Optimization

**Chemical & Biomolecular Engineering**

- CHBE 682 Systems Biology of Human Diseases

**Computer Science**

- COMP 310 Advanced Object-oriented Programming and Design
- COMP 322 Fundamentals/Principles of Parallel Programming (Cross-list ELEC 323)
- COMP 427 / 541 Introduction to Computer Security
- COMP 410 / 539 Software Engineering Methodology
- COMP 422 / 534 Introduction to Parallel Computing
- COMP 429 / 556 Introduction to Computer Networks
- COMP 430 Introduction to Database Systems
- COMP 440 / 557 Artificial Intelligence
- COMP 446 Mobile Device Applications Project (Cross-list ELEC 446)
- COMP 450 / 550 Algorithmic Robotics
- COMP 482 Design and Analysis of Algorithms
- COMP 485 Fundamentals of Medical Imaging I (Cross-list BIOE 485, ELEC 485)
- COMP 486 Fundamentals of Medical Imaging II (Cross-list BIOE 486, ELEC 486)
- COMP 502 Neural Machine Learning I (Cross-list ELEC 502, STAT 502)
- COMP 520 Distributed Systems (Cross-list ELEC 520)
- COMP 524 Mobile and Wireless Networking (Cross-list ELEC 524)
- COMP 527 Computer Systems Security
- COMP 540 Statistical Machine Learning
- COMP 571 Bioinformatics: Sequence Analysis
- COMP 572 Bioinformatics: Network Analysis
- COMP 573 Professional Development for Biomedical Informatics Professionals - instructor permission is required; course is taught in the Spring of even years.
- COMP 602 Neural Machine Learning II (Cross-list ELEC 602, STAT 602)
Electrical and Computer Engineering
ELEC 446 Mobile Device Applications Project (Cross-list COMP 446)
ELEC 485 Fundamentals of Medical Imaging I (Cross-list BIOE 485, COMP 485)
ELEC 486 Fundamentals of Medical Imaging II (Cross-list BIOE 486, COMP 486)
ELEC 502 Neural Machine Learning I (Cross-list COMP 502, STAT 502)
ELEC 517 Architecting Modern Learning Algorithms
ELEC 520 Distributed Systems (Cross-list COMP 520)
ELEC 531 Statistical Signal Processing
ELEC 548 Neural Signal Processing / Machine Learning for Neuro Engineering (Cross-list BIOE 548)
ELEC 602 Neural Machine Learning II (Cross-list COMP 602, STAT 602)

Statistics
STAT 405 / 605 R for Data Science
STAT 410 Linear Regression
STAT 411 / 616 Advanced Statistical Methods
STAT 502 Neural Machine Learning I (Cross-list COMP 502, ELEC 502)
STAT 423 / 623 Probability in Bioinformatics and Genetics
STAT 431 Overview of Mathematical Statistics
STAT 541 Multivariate Analysis
STAT 545 Generalized Linear Models (GLM) & Categorical Data Analysis
STAT 549 Functional Data Analysis
STAT 550 Nonparametric Function Estimation
STAT 552 Applied Stochastic Processes
STAT 553 Biostatistics
STAT 606 SAS Statistical Programming
STAT 615 Regression and Linear Models
STAT 622 Bayesian Data Analysis
STAT 640 Data Mining and Statistical Learning
STAT 648 Graphical Models and Networks
STAT 655 Nonparametric Bayesian Data Analysis
STAT 673 Probability and Statistics for Systems Biology