

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