Graduate Computing-related Programs

Program	Computer Science	Information Technology	Software Engineering	Applied Statistics & Analytics
Focus	Theory, algorithm, and development of computing systems	Analyze complex computing problems and apply principles of computing & other relevant disciplines to identify solutions	Design and build high-quality software	Utilize cutting edge applied statistical methods to enable correct, meaningful inferences from data obtained from business, industry, government and health services
Knowledge/skills	-Algorithmic thinking -Math -Developing software for complex problems	-Problem solving -Adaptability	-Application of software development concepts to solve business needs	-Algorithmic concepts -Statistics & Probability -Database design, development and implementation -Data administration -Data warehousing -Deep learning -Big data analysis/processing -Information visualization -Machine learning/AI
Jobs/careers	-Programmer/ Developer -Systems analyst -Cybersecurity Specialist -Network analyst	-Chief Technology Officer -Database Administrator -Cybersecurity professional	-Chief Technology Officer -Chief/Lead engineer -Embedded software systems engineer	-Statistician -Data Scientist -Sports/financial analyst
Related tasks	-Research advanced algorithms. -Model advanced and/or large systems.	We recommend you speak with the program director for this information	We recommend you speak with the program director for this information	We recommend you speak with the program director for this information
Curricula	2022 Curriculum	2022 Curriculum	2022 Curriculum	2022 Curriculum
College offering major	College of Computing & Software Engineering	College of Computing & Software Engineering	College of Computing & Software Engineering	College of Computing & Software Engineering