



DEGREE REQUIREMENTS 4 CORE COURSES + 7 ELECTIVE COURSES = 11 COURSES TOTAL (33 CREDIT HOURS)

PLAN OF STUDY

THE ORANGE SAMPLE PLAN OF STUDY FOLLOWS THE MOST COMMON COURSE LOAD AND TIMELINE, ALLOWING YOU TO COMPLETE YOUR DEGREE IN 2.5 YEARS WITH A SHORT BREAK EACH SUMMER.

YOU CAN ACCELERATE OR EXTEND YOUR PLAN OF STUDY AS DESIRED, BUT MUST FINISH YOUR DEGREE WITHIN 5 YEARS. YOU CAN USE THE **PLAN OF STUDY WORKSHEET** IF YOU INTEND TO FOLLOW A TIMELINE OF MORE THAN THREE YEARS.

| | 2021/22 | 2022/23 | 2023/24 |
|--------|------------------|----------------------|----------|
| FALL | CORE CORE | ELECTIVE ELECTIVE | ELECTIVE |
| SPRING | CORE ELECTIVE | ELECTIVE ELECTIVE | |
| SUMMER | CORE | ELECTIVE | |

USING THIS WORKSHEET

SELECT YOUR TERM ORDER, ACADEMIC YEARS, AND COURSES FROM THE DROP DOWN LISTS TO FILL IN THE BLANK PLAN OF STUDY. BE SURE TO ADHERE TO PREREQUISITES AND THE TERMS COURSES ARE OFFERED AS INDICATED BELOW AND ON THE FOLLOWING PAGE.

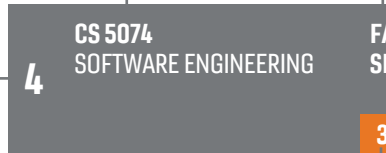
YOU CAN ALSO REFERENCE THE **COURSE LISTING** AND **AREAS OF SPECIALIZATION** DOCUMENTS. CONTACT OUR PROGRAM OFFICE AT VTMIT@VT.EDU FOR ASSISTANCE OR TO CONFIRM YOUR PLAN OF STUDY IS VALID.

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WORKSHEET KEY

COURSE NUMBER AND TITLE

WORKSHEET REFERENCE NUMBER



TERMS COURSE IS OFFERED

FA = FALL SP = SPRING SU = SUMMER

= REQUIRED PREREQUISITE

= SUGGESTED PREREQUISITE

WORKSHEET REFERENCE NUMBER FOR ANY PREREQUISITE COURSES

INDICATES CHOICE OF COURSE

e.g. 2/6 MEANS EITHER BIT 5594 OR MGT 5804 WILL FULFILL REQUIREMENT

CORE COURSES

SELECT FOUR (4) COURSES

| | | |
|---|--|----------------|
| 1 | ACIS 5504 INFORMATION SYSTEMS DESIGN AND DATABASE CONCEPTS | FA SP |
| 2 | BIT 5594 WEB-BASED APPLICATIONS & ELECTRONIC COMMERCE | FA SU |
| 3 | CS 5044 OBJECT-ORIENTED PROGRAMMING WITH JAVA | FA SP SU |
| 4 | CS 5704 SOFTWARE ENGINEERING | FA SP |
| 5 | ECE 5484 FUNDAMENTALS OF COMPUTER SYSTEMS | FA SP SU |
| 6 | MGT 5804 STRATEGIC LEADERSHIP IN TECHNOLOGY-BASED ORGANIZATIONS | FA SP |

YOU MAY TAKE MORE THAN FOUR CORE COURSES IF YOU WISH TO SUBSTITUTE A CORE COURSE FOR AN ELECTIVE IN THE PLAN OF STUDY

= KNOWLEDGE OF JAVA, C, C++, OR C# IS REQUIRED. CONTACT OUR PROGRAM OFFICE FOR MORE INFORMATION IF YOU DO NOT YET HAVE THIS BACKGROUND.

ELECTIVE COURSES

SELECT SEVEN (7) COURSES

COURSES HAVE BEEN ORGANIZED BY AREA OF SPECIALIZATION. YOU MAY CHOOSE **ANY COMBINATION OF ELECTIVE COURSES** TO FILL IN YOUR PLAN OF STUDY

| | | | | | | | | |
|--|----|---|----------------|-----|----|--|----------|-----|
| ANALYTICS & BUSINESS INTELLIGENCE | 7 | BIT 5524 INTRODUCTION TO BUSINESS INTELLIGENCE | FA | 2/6 | 8 | BIT 5534 APPLIED BUSINESS INTELLIGENCE & ANALYTICS | SP | 7 |
| BIG DATA | 9 | CS 5644 MACHINE LEARNING WITH BIG DATA | FA | 3 | 10 | CS 5664 SOCIAL MEDIA ANALYTICS | SP | 3 |
| BUSINESS INFORMATION SYSTEMS | 11 | ACIS 5524 ADVANCED DATABASE MANAGEMENT SYSTEMS | FA SP | 1 | 12 | ACIS 5534 INFORMATION SYSTEMS ANALYSIS AND DESIGN | FA | 1 |
| CYBERSECURITY | 13 | ECE 5480 CYBERSECURITY AND THE INTERNET OF THINGS | FA SP | 3/5 | 14 | ECE 5585 IT SECURITY AND TRUST I | FA | 5 |
| | | | | | 15 | ECE 5586 IT SECURITY AND TRUST II | SP | 14 |
| CYBERSECURITY MANAGEMENT | 16 | BIT 5134 CYBERSECURITY PROGRAM DESIGN | FA SU | 2/6 | 17 | ACIS 5624 CYBERSECURITY GOVERNANCE AND | SP | 2/6 |
| CYBERSECURITY POLICY | 18 | BIT 5114 CRIME AND CONFLICT IN CYBERSPACE | SP SU | 2/6 | 19 | BIT 5124 CYBER LAW AND POLICY FOR INFORMATION TECHNOLOGY | FA | 2/6 |
| DECISION SUPPORT SYSTEMS | 20 | BIT 5474 COMPUTER-BASED DECISION SUPPORT SYSTEMS | FA | 2 | 21 | BIT 5484 COGNITIVE COMPUTING FOR SMART SERVICE SYSTEMS | SP | 20 |
| HEALTH INFORMATION TECHNOLOGY | 22 | BIT 5564 HEALTHCARE INFORMATION TECHNOLOGY | SU | 1 | 23 | BIT 5574 HEALTHCARE DATA MANAGEMENT | SU | 1 |
| INNOVATION/ ENTREPRENEURSHIP IN AI/ML | 24 | ECE 5494 INNOVATIVE PATHWAYS IN AI & MACHINE LEARNING | SP | 5/6 | 25 | MGT 5824 TECHNOLOGY-BASED ENTREPRENEURSHIP | SU | 6 |
| NETWORKING | 26 | ECE 5485 NETWORKS AND PROTOCOLS I | FA | 5 | 27 | ECE 5486 NETWORKS AND PROTOCOLS II | SP | 26 |
| SOFTWARE DEVELOPMENT | 28 | CS 5744 SOFTWARE DESIGN & QUALITY | FA | 4 | 29 | CS 5244 WEB APPLICATION DEVELOPMENT | FA SU | 3 |
| | | | | | 30 | CS 5254 MOBILE APPLICATION DEVELOPMENT | SP | 3 |
| SOFTWARE ENGINEERING | 3 | CS 5044 OBJECT-ORIENTED PROGRAMMING WITH JAVA | FA SP SU | | 4 | CS 5704 SOFTWARE ENGINEERING | FA SP | 3 |
| | | | | | 28 | CS 5744 SOFTWARE DESIGN & QUALITY | FA | 4 |