## Teacher Education: Computer Science

### Degree Requirements

#### General Education Requirements
- **CIVC 101** Introduction to Civic Engagement 1.0
- **COOP 101** Career Management and Professional Development 1.0
- **ECON 201** Principles of Microeconomics 4.0
- **ENGL 101** Composition and Rhetoric I: Inquiry and Exploratory Research 3.0  
  or **ENGL 111** English Composition I
- **ENGL 102** Composition and Rhetoric II: Advanced Research and Evidence-Based Writing 3.0  
  or **ENGL 112** English Composition II
- **ENGL 103** Composition and Rhetoric III: Themes and Genres 3.0  
  or **ENGL 113** English Composition III
- **HIST 285** Technology in Historical Perspective 4.0
- **MATH 121** Calculus I 4.0
- **MATH 122** Calculus II 4.0
- **MATH 123** Calculus III 4.0
- **MATH 221** Discrete Mathematics 3.0
- **MATH 311** Probability and Statistics I 4.0  
  or **MATH 410** Scientific Data Analysis
- **PHIL 311** Ethics and Information Technology 3.0
- **PSY 101** General Psychology I 3.0
- **PSY 320 [WI]** Educational Psychology 3.0
- **UNIV T101** The Drexel Experience 1.0  
  or **CI 120** CCI Transfer Student Seminar

#### Science Requirements 12.0-15.0

Choose one lab sequence:
- **BIO 131** Cells and Biomolecules  
  & **BIO 134** and Cells and Biomolecules Lab
- **BIO 132** Genetics and Evolution  
  & **BIO 135** and Genetics and Evolution Lab
- **BIO 133** Physiology and Ecology  
  & **BIO 136** and Anatomy and Ecology Lab
- **CHEM 101** General Chemistry I  
  & **CHEM 102** and General Chemistry II  
  & **CHEM 103** and General Chemistry III
- **PHYS 101** Fundamentals of Physics I  
  & **PHYS 102** and Fundamentals of Physics II  
  & **PHYS 201** and Fundamentals of Physics III

#### Computer Science Requirements
- **CS 150** Computer Science Principles 3.0
- **CS 171** Computer Programming I 3.0  
  or **CS 175** Advanced Computer Programming I
- **CS 172** Computer Programming II 3.0  
  or **CS 176** Advanced Computer Programming II
- **CS 260** Data Structures 3.0
- **CS 265** Advanced Programming Tools and Techniques 3.0
- **CS 270** Mathematical Foundations of Computer Science 3.0
- **CS 375** Web Development 3.0

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**Recommended:**
- **CS 277** Algorithms and Analysis
- **CS 281** Systems Architecture
- **SE 181** Introduction to Software Engineering and Development
- **SE 310** Software Architecture I

**Choose additional courses from CCI: CS, SE, INFO, CT 200 level and above**

#### Computing & Informatics Requirements
- **CI 101** Computing and Informatics Design I 2.0

### Pedagogy Requirements
- **EDEX 142** Special Education Foundations: Referral and Assessment 3.0
- **EDEX 344** Inclusionary Practices for Exceptional Students 3.0
- **EDEX 368** Literacy and Content Skill Development PK-12 3.0
- **EDLT 326** Technology Applications for Learning 3.0
- **EDUC 101** Foundations in Education I: A Historical and Philosophical Perspective 3.0
- **EDUC 106** First Year Seminar: A Case of Schools and Cities 1.0
- **EDUC 107** First Year Seminar: Exploring Pedagogies 1.0
- **EDUC 108** First Year Seminar: Designing Learning Spaces 1.0
- **EDUC 113** Organizational Structure of Secondary Schools 3.0
- **EDUC 123** Adolescent Development 3.0
- **EDUC 205** Sophomore Pedagogy Seminar 1.0
- **EDUC 216** Diversity and Today's Teacher 3.0
- **EDUC 223** Teaching the Middle School Child 3.0
- **EDUC 305 [WI]** Junior Pedagogy Seminar 1.0
- **EDUC 308** Creating a Positive Classroom Climate 3.0
- **EDUC 312** Educational Policy, Law & Advocacy 3.0
- **EDUC 316** Teaching in Urban Contexts 3.0
- **EDUC 322** Evaluation of Instruction 3.0
- **EDUC 324** Current Research in Curriculum & Instruction 3.0
- **EDUC 365** Foundations in Instructing English Language Learners 3.0
- **EDUC 405** Senior Pedagogy Seminar 1.0
- **EDUC 409** Student Teaching Seminar I 9.0
- **EDUC 410 [WI]** Student Teaching 9.0
- **ESTM 335** Teaching Secondary Computer Science 3.0

**Total Credits** 183.0-186.0

### Sample Plan of Study

**4 year, 1 co-op**

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Total Credits 183