

## College of DuPage to NIU course requirements for an AAS in Computer Information Systems (CIS) – Application Programmer - Java plus courses required for the NIU Industrial Technology BS Degree

### COD Courses to complete the AAS in CIS – Application Programmer – Java Emphasis

___ Cis 1150 – Introduction to CIS	___ Program Electives – Select 1 to 9 hours from any 1000 or 2000 level Cis courses except Cis 1110 & Cis 1205 (see catalog for additional information)
___ Cis 1160 – Windows Command Line (DOS) or Cis 1230 - Microcomputer Database Appl.	___ Chemi 1105 or 1211 - (NIU Chem 110/111)
___ Cis 1310 – HTML and CSS or	___ Math 1432 - (NIU Math 155 - Trigonometry)
___ Cis 1400 – Programming Logic & Technique	___ Social Science Elect (per NIU requirements)
___ Cis 1450 - Intro. to Linux/Unix Operating Sys.	___ Humanities Elective (per NIU requirements)
___ Cis 2541 – C++ Language Programming	___ Engli 1101 – Eng. Comp. I (NIU Engl 103)
___ Cis 2542 – Adv. C++ w/Data Structure Apps.	___ Speec 1100 (NIU Coms 100)
___ Cis 2710 – Database Management	___ Global/Multicultural Studies or Contemporary Life Skills category (2 credits)
___ Cis 2770 – Intro. to System Analysis & Design	
___ Cis 2790 – Systems Analyst Simulation	
___ Cis 2571 – Introduction to Java	
___ Cis 2572 – Applications in Java	

### COD Courses needed in completion of NIU IT degree

___ Engli 1102 - Eng. Comp II (NIU Engl 104)	___ Engli 1105 (NIU Tech Writing)
___ Humanities Elective (per NIU requirements)	___ Accou 1140 – Finan. Acctg. (NIU Accy 206)
___ Humanities Elective (per NIU requirements)	___ NIU Phys 150A
___ Social Science Elect (per NIU requirements)	___ Elect 1101 (NIU Tech 175/175A)
___ Interdisciplinary Elect (per NIU requirements)	___ Engin 1101 - (NIU Tech 211)
___ Math 1635 – Statistics (NIU Stat 208)	

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### NIU Course work – Taken at NIU – DeKalb, Hoffman Estates, Naperville, or Rockford

#### Required NIU courses

- \_\_\_ Tech 265 – Basic Manufacturing Processes
- \_\_\_ Tech 302 – Graphic Presentation and Communications
- \_\_\_ Tech 395 – Industrial Data Processing
- \_\_\_ Tech 404 – Supervision in Industry
- \_\_\_ Tech 429 - Plant location, Layout and Materials Handling
- \_\_\_ Tech 434 – Human Factors in Industrial Accident Prevention
- \_\_\_ Tech 391 – Industrial Quality Control
- \_\_\_ Tech 496 - Industrial Project Management

#### Technology Electives - Choose 4

- \_\_\_ Tech 402 - Industrial Training and Evaluation
- \_\_\_ Tech 442 - Work Simplification
- \_\_\_ Tech 443 - Engineering Economy
- \_\_\_ Tech 444 - Production Control systems
- \_\_\_ Tech 484 - Energy Management
- \_\_\_ Tech 492 – Manufacturing Distribution Applications
  
- \_\_\_ Technology Department elective – must be upper level 300/400 (consult NIU Technology Dept. Advisor)
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#### NIU Requirements for graduation – See [www.ceet.niu.edu/tech](http://www.ceet.niu.edu/tech) for more information

- A minimum of 120 hours for graduation
- A minimum of 30 hours in NIU course work
- A minimum of 40 Hours in NIU 300/400 level courses
- Completion of the NIU General Education Core