

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

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

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| ___ Cis 1150 – Introduction to CIS                 | ___ Cis 2510 - Adv. Graphical User Interface Program |
| ___ Cis 1160 – Windows Command Line (DOS)          | ___ Program Electives – Select 1 to 9 hours from     |
| ___ or Cis 1230 - Microcomputer Database Appl.     | ___ any 1000 or 2000 level Cis courses except        |
| ___ Cis 1310 – HTML and CSS or                     | ___ Cis 1110 & Cis 1205                              |
| ___ Cis 1400 – Programming Logic & Technique       | ___ (see catalog for additional information)         |
| ___ Cis 1450 - Intro. to Linux/Unix Operating Sys. | ___ Chemi 1105 or 1211 - (NIU Chem 110/111)          |
| ___ Cis 2541 – C++ Language Programming            | ___ Math 1432 - (NIU Math 155 - Trigonometry)        |
| ___ Cis 2542 – Adv. C++ w/Data Structure Apps.     | ___ Social Science Elect (per NIU requirements)      |
| ___ Cis 2710 – Database Management                 | ___ Humanities Elective (per NIU requirements)       |
| ___ Cis 2770 – Intro. to System Analysis & Design  | ___ Engli 1101 – Eng. Comp. I (NIU Engl 103)         |
| ___ Cis 2790 – Systems Analyst Simulation          | ___ Speec 1100 (NIU Coms 100)                        |
| ___ Cis 1130 – Windows Basics                      | ___ Global/Multicultural Studies or Contemporary     |
| ___ Cis 1510 - Graphical User Interface Program.   | ___ Life Skills category (2 credits)                 |

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

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| ___ 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