**Purdue Northwest Curriculum Document Coversheet**

|  |  |  |  |
| --- | --- | --- | --- |
| **Document No:**(According to [Instruction](http://faculty.pnw.edu/blog/curriculum-document-approval-procedures/)s[[1]](#footnote-1)) | COT 18-07 NEW CONCEN CIT | **Approval by Faculty Senate:** (Leave Blank) | 1/11/19 |
| **Proposed Effective Date**  | Fall 2019 | **Date Reviewed by Senate Curriculum****Committee:** (Leave blank) | 12/14/18 |
| **Submitting Department:**(Name of both Dept & College/School ) | CITGCollege of Technology | **Name(s) of Library Staff Consulted:** (NA if not required) | NA |
| **Date Reviewed by Department**  | 11/2/2018 |  |  |
| **Submission Date:**(Date sent to College/School Curr Comm after Dept Review) | 11/14/2018 | **Will New Library****Resources Used?** | [ ]  **Yes**[x]  **No** Double-click to check Yes / No. |
| **Date Reviewed by College/School Curriculum Committee**  | 11/16/2018 | **Form 40 Needed?**(Double-click one box.)Registrar will complete Form 40 **after** Senate approval of document. | [ ]  **Yes** New courses or any course change, check **YES**[x]  **No** For **all other** curriculum matters, check **NO**. |
| **Contact Person(s):**(Name & Title) | Michael TuAssociate Professor |  |  |

Unless marked “Leave blank” all parts of this form must be filled in **before** sending to Secretary of the Faculty Senate.

|  |
| --- |
| **Task (check all that apply and fill out sections appropriate for each change).** [x]  Program/Concentration Change or New Program/Concentration Proposal: Complete Section I, III, & IV[ ]  Minor Change or New Minor Proposal: Complete Section I (delete sections III & IV)[ ]  Certificate Change or New Certificate Proposal: Complete Section I (delete sections III & IV)[ ]  Course Change or New Course Proposal: Complete Section II (delete sections III & IV) |
| **Program name**.Computer Information Technology |
| **Degree name(s).** (If applicable.)B.S. Computer Information Technology, Cybersecurity Concentration |

## Section I: This section is for changes in programs, minors and certificates

|  |
| --- |
| **List the major changes in each program of study, minor or certificate.** The Cybersecurity Undergraduate Concentration Program will share the same course curriculum and Plan of Study with the CIT undergraduate program at PNW. The following two cybersecurity courses (in 2-2-3 pattern, 6 credit hours) be taken as two (2) of the five (5) restricted electives required by the Plan of Study for CIT Undergraduate. ITS45800: Advanced Topics in Cyber Forensics PracticesITS47800: Advanced Topics in Cybersecurity Practices |
| **Impact on Students.** (State “N/A” if proposal will not greatly affect students.)The target audiences are existing students enrolled in the PNW Computer Information Technology (CIT) Undergraduate Program. The new concentration will not increase the course credits for CIT students to receive their BS degree in CIT and the new concentration, since the two courses are part of the 5 strict electives in CIT Plan of Study. |
| **Impact on University Resources.** (State “N/A” if proposal will not require new resources, faculty or funds.)**The Return:** We expect that with the new cybersecurity concentration placed, the freshmen enrollment for CIT program will increase by **10**, which will increase the total enrollment for the program by the number of (10, 17, 23, 27) and generateextra billing hours (60, 102, 136, 162), from 2018 to 2022, shown in the attached form. We expect that there will be around 15 students enrolled in each of the two courses (on each campus), which are in 2-2-3 pattern. The two courses will generate 90 billing hours or more (per campus) depending on the number of students enrolled in these classes.**The Investment:** The two courses will be taught by CIT full time faculty member(s) and two low level courses taught by the full time faculty member(s) will be taught by LTLs, supported by PNW LTL funds or COT College cash (if LTL funds is limited). |
| **Impact on other Academic Units.** (State “N/A” if proposal will not affect other units.)(Include name of person in affected area discussed with)N/A |

 ***Document No:***

## Section III: PLAN OF STUDY REVISION

### Degree Name: Computer Information Technology, BS

### Degree Requirements

### PNW General Education Core

| **Core Categories** | **Credits** | **Courses:** Enter “Select from list” or designate course(s) from list |
| --- | --- | --- |
| English Composition  | 6 | ENGL 10400 - English Composition I and ENGL 10500 - English Composition II |
| Speech Communication | 3 | COM 11400 - Fundamentals of Speech Communication |
| Quantitative Reasoning  | 6 | * [MA 14700 - Algebra And Trigonometry For Technology](https://catalog.pnw.edu/preview_program.php?catoid=5&poid=1429&returnto=270#tt9670) or [MA 15300 - College Algebra](https://catalog.pnw.edu/preview_program.php?catoid=5&poid=1429&returnto=270#tt2674)
* [MA 20500 - Discrete Mathematics For Computer Technology](https://catalog.pnw.edu/preview_program.php?catoid=5&poid=1429&returnto=270#tt100)
 |
| Natural Sciences  | 3 | [Select from the Natural Sciences Core list](https://catalog.pnw.edu/preview_program.php?catoid=5&poid=1528)  |
| Technology | 3 | [ITS 11000 - Web Systems Technology](https://catalog.pnw.edu/preview_program.php?catoid=5&poid=1429&returnto=270#tt9051)  |
| Humanities | 3 | [Select from the Humanities Core list](https://catalog.pnw.edu/preview_program.php?catoid=5&poid=1528)  |
| Social Sciences | 3 | [Select from the Social Sciences Core list](https://catalog.pnw.edu/preview_program.php?catoid=5&poid=1528)  |
| Additional credits |  |  |
| General Ed Elective |  |  |
| First-Year Experience (FYE) | 3 | [ITS 10000 - Information Technology Fundamentals](https://catalog.pnw.edu/preview_program.php?catoid=5&poid=1429&returnto=270#tt6398)  |
| **Total** (minimum)  | 30 |  |

### Other Required Courses

**Choose three (3) courses from:**

Courses approved by CIT faculty. Any approved minor may be substituted for selective

Total Other Required Courses 9 credits

### Core: Required Courses

ENGL 22000 - Technical Report Writing 3 credits

ITS 13500 - Operating Systems Technologies 3 credits

ITS 14000 - Introduction To Computer Algorithms And Logic 3 credits

ITS 17000 - Networking Technologies 3 credits

ITS 24000 - Programming Fundamentals 3 credits

ITS 24500 - Integrative Programming 3 credits

ITS 25000 - Fundamentals Of Information Assurance 3 credits

ITS 26000 - Applied Database Technologies 3 credits

ITS 27000 - Internetworking Technologies 3 credits

ITS 33000 - Advanced Operating Systems 3 credits

ITS 34000 - Advanced Programming 3 credits

ITS 35000 - Systems Assurance 3 credits

ITS 35200 - Disaster Recovery And Planning 3 credits

ITS 36000 - Distributed Application Architecture And Design 3 credits

ITS 36200 - Distributed Application Development 3 credits

ITS 36400 - Database Modeling And Implementation 3 credits

ITS 37200 - System Administration And Management 3 credits

ITS 44000 - Mobile Application Development 3 credits

ITS 45000 - Software Assurance 3 credits

ITS 45200 - Computer Forensics 3 credits

ITS 45400 - Assured Systems Design And Implementation 3 credits

ITS 46200 - Application Integration 3 credits

ITS 47200 - Network Design And Implementation 3 credits

ITS 49000 - Senior Project Undergraduate Research 3 credits

STAT 30100 - Elementary Statistical Methods 3 credits

Total Core 75 credits

### Concentration

ITS45800 Advanced Topics in Cyber Forensics Practices 3 credits

ITS47800 Advanced Topics in Cybersecurity Practices 3 credits

 \_\_\_\_\_\_

Total Concentration 6 credits

**Total credits required for baccalaureate degree: \_\_\_120\_\_\_\***

**\***For degree programs that require an excess of 120 credit hours, provide explanation and attach documentation, if appropriate.

## Section IV: For all Program Changes;

## Current Semester by Semester

Semester One **Total Credits** = 15

| **Program Requirements : Designate Program Requirement** | **Subject Code/Course Number** | **(GenEd)****Yes=X** | **Credits****Number** | **Min Grade** | **Prerequisites** |
| --- | --- | --- | --- | --- | --- |
|  | ITS 10000 - Information Technology Fundamentals | X | 3 | C |  |
|  | ITS 13500 - Operating Systems Technologies |  | 3 | C |  |
|  | ITS 14000 - Introduction To Computer Algorithms And Logic |  | 3 | C |  |
|  | ENGL 10400 - English Composition I | X | 3 | C |  |
|  | MA 14700 - Algebra And Trigonometry For Technology (m) or MA 15300 - College Algebra (m) | X | 3 | C | (MA 11500 FOR LEVEL UG WITH MIN. GRADE OF C- OR MA 11100 FOR LEVEL UG WITH MIN. GRADE OF C-) OR APPL FOR MIN. SCORE OF 045 |

Semester Two **Total Credits** = 15

| **Program Requirements : Designate Program Requirement** | **Subject Code/Course Number** | **(GenEd)****Yes=X** | **Credits****Number** | **Min Grade** | **Prerequisites** |
| --- | --- | --- | --- | --- | --- |
|  | [ITS 11000 - Web Systems Technology](https://catalog.pnw.edu/preview_program.php?catoid=5&poid=1429&returnto=270) | X | 3 | C |  |
|  | [ITS 17000 - Networking Technologies](https://catalog.pnw.edu/preview_program.php?catoid=5&poid=1429&returnto=270) |  | 3 | C |  |
|  | [ITS 24000 - Programming Fundamentals](https://catalog.pnw.edu/preview_program.php?catoid=5&poid=1429&returnto=270) |  | 3 | C | MA 20500 FOR LEVEL UG WITH MIN. GRADE OF C (MAY BE TAKEN CONCURRENTLY) AND ITS 14000 FOR LEVEL UG WITH MIN. GRADE OF C |
|  | [MA 20500 - Discrete Mathematics For Computer Technology](https://catalog.pnw.edu/preview_program.php?catoid=5&poid=1429&returnto=270) | X | 3 | C | MA 14700 FOR LEVEL UG WITH MIN. GRADE OF C- OR MA 15300 FOR LEVEL UG WITH MIN. GRADE OF C- OR CLM FOR MIN. SCORE OF 076 |
|  | [ENGL 10500 - English Composition II](https://catalog.pnw.edu/preview_program.php?catoid=5&poid=1429&returnto=270) | X | 3 | C | ENGL 10400 FOR LEVEL UG WITH MIN. GRADE OF C- OR ENGL 10000 FOR LEVEL UG WITH MIN. GRADE OF B- OR ENGL 10100 FOR LEVEL UG WITH MIN. GRADE OF C- |

Semester Three **Total Credits** = 15

| **Program Requirements : Designate Program Requirement** | **Subject Code/Course Number** | **(GenEd)****Yes=X** | **Credits****Number** | **Min Grade** | **Prerequisites** |
| --- | --- | --- | --- | --- | --- |
|  | ITS 24500 - Integrative Programming |  | 3 | C |  ITS 24000 FOR LEVEL UG WITH MIN. GRADE OF C |
|  | ITS 26000 - Applied Database Technologies |  | 3 | C | ITS 24000 FOR LEVEL UG WITH MIN. GRADE OF C |
|  | ITS 27000 - Internetworking Technologies |  | 3 | C |  ITS 17000 FOR LEVEL UG WITH MIN. GRADE OF C AND ITS 14000 FOR LEVEL UG WITH MIN. GRADE OF C |
|  | COM 11400 - Fundamentals Of Speech Communication | X | 3 | C |  |
|  | STAT 30100 - Elementary Statistical Methods |  | 3 | C |  MA 14700 FOR LEVEL UG WITH MIN. GRADE OF C OR MA 15200 FOR LEVEL UG WITH MIN. GRADE OF C OR MA 15300 FOR LEVEL UG WITH MIN. GRADE OF C OR MA 21300 FOR LEVEL UG WITH MIN. GRADE OF C |

Semester Four **Total Credits** = 15

| **Program Requirements : Designate Program Requirement** | **Subject Code/Course Number** | **(GenEd)****Yes=X** | **Credits****Number** | **Min Grade** | **Prerequisites** |
| --- | --- | --- | --- | --- | --- |
|  | ITS 25000 - Fundamentals Of Information Assurance |  | 3 | C | ITS 13500 FOR LEVEL UG WITH MIN. GRADE OF C- AND ITS 17000 FOR LEVEL UG WITH MIN. GRADE OF C |
|  | ITS 34000 - Advanced Programming |  | 3 | C | ITS 24500 FOR LEVEL UG WITH MIN. GRADE OF C |
|  | [ITS 37200 - System Administration And Management](https://catalog.pnw.edu/preview_program.php?catoid=5&poid=1429&returnto=270) |  | 3 | C |  ITS 27000 FOR LEVEL UG WITH MIN. GRADE OF C |
|  | [Any approved Gen Ed Social Science course](https://catalog.pnw.edu/preview_program.php?catoid=5&poid=1528) | X | 3 | C |  |
|  | [Any approved Gen Ed Natural Science course](https://catalog.pnw.edu/preview_program.php?catoid=5&poid=1528) | X | 3 | C |  |

Semester Five **Total Credits** = 15

| **Program Requirements : Designate Program Requirement** | **Subject Code/Course Number** | **(GenEd)****Yes=X** | **Credits****Number** | **Min Grade** | **Prerequisites** |
| --- | --- | --- | --- | --- | --- |
|  | [ITS 35000 - Systems Assurance](https://catalog.pnw.edu/preview_program.php?catoid=5&poid=1429&returnto=270) |  | 3 | C | ITS 25000 FOR LEVEL UG WITH MIN. GRADE OF C |
|  | [ITS 35200 - Disaster Recovery And Planning](https://catalog.pnw.edu/preview_program.php?catoid=5&poid=1429&returnto=270) |  | 3 | C | ITS 25000 FOR LEVEL UG WITH MIN. GRADE OF C |
|  | [ITS 36000 - Distributed Application Architecture And Design](https://catalog.pnw.edu/preview_program.php?catoid=5&poid=1429&returnto=270) |  | 3 | C | ITS 26000 FOR LEVEL UG WITH MIN. GRADE OF C AND ITS 24500 FOR LEVEL UG WITH MIN. GRADE OF C |
|  | ENGL 22000 - Technical Report Writing or ENGL 42000 - Business Writing |  | 3 | C |  ENGL 10400 FOR LEVEL UG WITH MIN. GRADE OF C- OR ENGL 10000 FOR LEVEL UG WITH MIN. GRADE OF B- OR ENGL 10800 FOR LEVEL UG WITH MIN. GRADE OF C- OR ENGL 10100 FOR LEVEL UG WITH MIN. GRADE OF C- |
|  | [Any approved Gen Ed Humanities course](https://catalog.pnw.edu/preview_program.php?catoid=5&poid=1528) | X | 3 | C |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

Semester Six **Total Credits** = 15

| **Program Requirements : Designate Program Requirement** | **Subject Code/Course Number** | **(GenEd)****Yes=X** | **Credits****Number** | **Min Grade** | **Prerequisites** |
| --- | --- | --- | --- | --- | --- |
|  | [ITS 33000 - Advanced Operating Systems](https://catalog.pnw.edu/preview_program.php?catoid=5&poid=1429&returnto=270) |  | 3 | C | ITS 24500 FOR LEVEL UG WITH MIN. GRADE OF C |
|  | [ITS 36200 - Distributed Application Development](https://catalog.pnw.edu/preview_program.php?catoid=5&poid=1429&returnto=270) |  | 3 | C | ITS 36000 FOR LEVEL UG WITH MIN. GRADE OF C AND ITS 34000 FOR LEVEL UG WITH MIN. GRADE OF C |
|  | [ITS 36400 - Database Modeling And Implementation (e)](https://catalog.pnw.edu/preview_program.php?catoid=5&poid=1429&returnto=270)  |  | 3 | C | ITS 36000 FOR LEVEL UG WITH MIN. GRADE OF C |
|  | Selective  |  | 3 | C |  |
|  | Selective  |  | 3 | C |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

Semester Seven **Total Credits** = 15

| **Program Requirements : Designate Program Requirement** | **Subject Code/Course Number** | **(GenEd)****Yes=X** | **Credits****Number** | **Min Grade** | **Prerequisites** |
| --- | --- | --- | --- | --- | --- |
|  | [ITS 44000 - Mobile Application Development](https://catalog.pnw.edu/preview_program.php?catoid=5&poid=1429&returnto=270) |  | 3 | C |  ITS 34000 FOR LEVEL UG WITH MIN. GRADE OF C |
|  | [ITS 45000 - Software Assurance](https://catalog.pnw.edu/preview_program.php?catoid=5&poid=1429&returnto=270) |  | 3 | C | ITS 34000 FOR LEVEL UG WITH MIN. GRADE OF C |
|  | [ITS 45200 - Computer Forensics](https://catalog.pnw.edu/preview_program.php?catoid=5&poid=1429&returnto=270) |  | 3 | C | ITS 35200 FOR LEVEL UG WITH MIN. GRADE OF C |
|  | [ITS 46200 - Application Integration](https://catalog.pnw.edu/preview_program.php?catoid=5&poid=1429&returnto=270) |  | 3 | C | ITS 36200 FOR LEVEL UG WITH MIN. GRADE OF C AND ITS 36400 FOR LEVEL UG WITH MIN. GRADE OF C |
|  | Selective  |  | 3 | C |  |

Semester Eight **Total Credits** = 15

| **Program Requirements : Designate Program Requirement** | **Subject Code/Course Number** | **(GenEd)****Yes=X** | **Credits****Number** | **Min Grade** | **Prerequisites** |
| --- | --- | --- | --- | --- | --- |
|  | [ITS 45400 - Assured Systems Design And Implementation](https://catalog.pnw.edu/preview_program.php?catoid=5&poid=1429&returnto=270) |  | 3 | C | ITS 45000 FOR LEVEL UG WITH MIN. GRADE OF C OR ITS 45200 FOR LEVEL UG WITH MIN. GRADE OF C |
|  | ITS 47200 - Network Design And Implementation |  | 3 | C | ITS 37200 FOR LEVEL UG WITH MIN. GRADE OF C |
|  | [ITS 49000 - Senior Project Undergraduate Research](https://catalog.pnw.edu/preview_program.php?catoid=5&poid=1429&returnto=270) |  | 3 | C | ITS 37200 FOR LEVEL UG WITH MIN. GRADE OF C OR ITS 45000 FOR LEVEL UG WITH MIN. GRADE OF C OR ITS 46200 FOR LEVEL UG WITH MIN. GRADE OF C |
|  | Selective  |  | 3 | C |  |
|  | Selective  |  | 3 | C |  |

 Notes: N/A

## Section IV continued: For all Program Changes;

## Proposed Semester by Semester

Semester One **Total Credits** = 15

| **Program Requirements : Designate Program Requirement** | **Subject Code/Course Number** | **(GenEd)****Yes=X** | **Credits****Number** | **Min Grade** | **Prerequisites** |
| --- | --- | --- | --- | --- | --- |
|  | ITS 10000 - Information Technology Fundamentals | X | 3 | C |  |
|  | ITS 13500 - Operating Systems Technologies |  | 3 | C |  |
|  | ITS 14000 - Introduction To Computer Algorithms And Logic |  | 3 | C |  |
|  | ENGL 10400 - English Composition I | X | 3 | C |  |
|  | MA 14700 - Algebra And Trigonometry For Technology (m) or MA 15300 - College Algebra (m) | X | 3 | C | (MA 11500 FOR LEVEL UG WITH MIN. GRADE OF C- OR MA 11100 FOR LEVEL UG WITH MIN. GRADE OF C-) OR APPL FOR MIN. SCORE OF 045 |

Semester Two **Total Credits** = 15

| **Program Requirements : Designate Program Requirement** | **Subject Code/Course Number** | **(GenEd)****Yes=X** | **Credits****Number** | **Min Grade** | **Prerequisites** |
| --- | --- | --- | --- | --- | --- |
|  | [ITS 11000 - Web Systems Technology](https://catalog.pnw.edu/preview_program.php?catoid=5&poid=1429&returnto=270) | X | 3 | C |  |
|  | [ITS 17000 - Networking Technologies](https://catalog.pnw.edu/preview_program.php?catoid=5&poid=1429&returnto=270) |  | 3 | C |  |
|  | [ITS 24000 - Programming Fundamentals](https://catalog.pnw.edu/preview_program.php?catoid=5&poid=1429&returnto=270) |  | 3 | C | MA 20500 FOR LEVEL UG WITH MIN. GRADE OF C (MAY BE TAKEN CONCURRENTLY) AND ITS 14000 FOR LEVEL UG WITH MIN. GRADE OF C |
|  | [MA 20500 - Discrete Mathematics For Computer Technology](https://catalog.pnw.edu/preview_program.php?catoid=5&poid=1429&returnto=270) | X | 3 | C | MA 14700 FOR LEVEL UG WITH MIN. GRADE OF C- OR MA 15300 FOR LEVEL UG WITH MIN. GRADE OF C- OR CLM FOR MIN. SCORE OF 076 |
|  | [ENGL 10500 - English Composition II](https://catalog.pnw.edu/preview_program.php?catoid=5&poid=1429&returnto=270) | X | 3 | C | ENGL 10400 FOR LEVEL UG WITH MIN. GRADE OF C- OR ENGL 10000 FOR LEVEL UG WITH MIN. GRADE OF B- OR ENGL 10100 FOR LEVEL UG WITH MIN. GRADE OF C- |

Semester Three **Total Credits** = 15

| **Program Requirements : Designate Program Requirement** | **Subject Code/Course Number** | **(GenEd)****Yes=X** | **Credits****Number** | **Min Grade** | **Prerequisites** |
| --- | --- | --- | --- | --- | --- |
|  | ITS 24500 - Integrative Programming |  | 3 | C |  ITS 24000 FOR LEVEL UG WITH MIN. GRADE OF C |
|  | ITS 26000 - Applied Database Technologies |  | 3 | C | ITS 24000 FOR LEVEL UG WITH MIN. GRADE OF C |
|  | ITS 27000 - Internetworking Technologies |  | 3 | C |  ITS 17000 FOR LEVEL UG WITH MIN. GRADE OF C AND ITS 14000 FOR LEVEL UG WITH MIN. GRADE OF C |
|  | COM 11400 - Fundamentals Of Speech Communication | X | 3 | C |  |
|  | STAT 30100 - Elementary Statistical Methods |  | 3 | C |  MA 14700 FOR LEVEL UG WITH MIN. GRADE OF C OR MA 15200 FOR LEVEL UG WITH MIN. GRADE OF C OR MA 15300 FOR LEVEL UG WITH MIN. GRADE OF C OR MA 21300 FOR LEVEL UG WITH MIN. GRADE OF C |

Semester Four **Total Credits** = 15

| **Program Requirements : Designate Program Requirement** | **Subject Code/Course Number** | **(GenEd)****Yes=X** | **Credits****Number** | **Min Grade** | **Prerequisites** |
| --- | --- | --- | --- | --- | --- |
|  | ITS 25000 - Fundamentals Of Information Assurance |  | 3 | C | ITS 13500 FOR LEVEL UG WITH MIN. GRADE OF C- AND ITS 17000 FOR LEVEL UG WITH MIN. GRADE OF C |
|  | ITS 34000 - Advanced Programming |  | 3 | C | ITS 24500 FOR LEVEL UG WITH MIN. GRADE OF C |
|  | [ITS 37200 - System Administration And Management](https://catalog.pnw.edu/preview_program.php?catoid=5&poid=1429&returnto=270) |  | 3 | C |  ITS 27000 FOR LEVEL UG WITH MIN. GRADE OF C |
|  | [Any approved Gen Ed Social Science course](https://catalog.pnw.edu/preview_program.php?catoid=5&poid=1528) | X | 3 | C |  |
|  | [Any approved Gen Ed Natural Science course](https://catalog.pnw.edu/preview_program.php?catoid=5&poid=1528) | X | 3 | C |  |

Semester Five **Total Credits** = 15

| **Program Requirements : Designate Program Requirement** | **Subject Code/Course Number** | **(GenEd)****Yes=X** | **Credits****Number** | **Min Grade** | **Prerequisites** |
| --- | --- | --- | --- | --- | --- |
|  | [ITS 35000 - Systems Assurance](https://catalog.pnw.edu/preview_program.php?catoid=5&poid=1429&returnto=270) |  | 3 | C | ITS 25000 FOR LEVEL UG WITH MIN. GRADE OF C |
|  | [ITS 35200 - Disaster Recovery And Planning](https://catalog.pnw.edu/preview_program.php?catoid=5&poid=1429&returnto=270) |  | 3 | C | ITS 25000 FOR LEVEL UG WITH MIN. GRADE OF C |
|  | [ITS 36000 - Distributed Application Architecture And Design](https://catalog.pnw.edu/preview_program.php?catoid=5&poid=1429&returnto=270) |  | 3 | C | ITS 26000 FOR LEVEL UG WITH MIN. GRADE OF C AND ITS 24500 FOR LEVEL UG WITH MIN. GRADE OF C |
|  | ENGL 22000 - Technical Report Writing or ENGL 42000 - Business Writing |  | 3 | C |  ENGL 10400 FOR LEVEL UG WITH MIN. GRADE OF C- OR ENGL 10000 FOR LEVEL UG WITH MIN. GRADE OF B- OR ENGL 10800 FOR LEVEL UG WITH MIN. GRADE OF C- OR ENGL 10100 FOR LEVEL UG WITH MIN. GRADE OF C- |
|  | [Any approved Gen Ed Humanities course](https://catalog.pnw.edu/preview_program.php?catoid=5&poid=1528) | X | 3 | C |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

Semester Six **Total Credits** = 15

| **Program Requirements : Designate Program Requirement** | **Subject Code/Course Number** | **(GenEd)****Yes=X** | **Credits****Number** | **Min Grade** | **Prerequisites** |
| --- | --- | --- | --- | --- | --- |
|  | [ITS 33000 - Advanced Operating Systems](https://catalog.pnw.edu/preview_program.php?catoid=5&poid=1429&returnto=270) |  | 3 | C | ITS 24500 FOR LEVEL UG WITH MIN. GRADE OF C |
|  | [ITS 36200 - Distributed Application Development](https://catalog.pnw.edu/preview_program.php?catoid=5&poid=1429&returnto=270) |  | 3 | C | ITS 36000 FOR LEVEL UG WITH MIN. GRADE OF C AND ITS 34000 FOR LEVEL UG WITH MIN. GRADE OF C |
|  | [ITS 36400 - Database Modeling And Implementation (e)](https://catalog.pnw.edu/preview_program.php?catoid=5&poid=1429&returnto=270)  |  | 3 | C | ITS 36000 FOR LEVEL UG WITH MIN. GRADE OF C |
|  | Selective  |  | 3 | C |  |
|  | Selective  |  | 3 | C |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

Semester Seven **Total Credits** = 15

| **Program Requirements : Designate Program Requirement** | **Subject Code/Course Number** | **(GenEd)****Yes=X** | **Credits****Number** | **Min Grade** | **Prerequisites** |
| --- | --- | --- | --- | --- | --- |
|  | [ITS 44000 - Mobile Application Development](https://catalog.pnw.edu/preview_program.php?catoid=5&poid=1429&returnto=270) |  | 3 | C |  ITS 34000 FOR LEVEL UG WITH MIN. GRADE OF C |
|  | [ITS 45000 - Software Assurance](https://catalog.pnw.edu/preview_program.php?catoid=5&poid=1429&returnto=270) |  | 3 | C | ITS 34000 FOR LEVEL UG WITH MIN. GRADE OF C |
|  | [ITS 45200 - Computer Forensics](https://catalog.pnw.edu/preview_program.php?catoid=5&poid=1429&returnto=270) |  | 3 | C | ITS 35200 FOR LEVEL UG WITH MIN. GRADE OF C |
|  | [ITS 46200 - Application Integration](https://catalog.pnw.edu/preview_program.php?catoid=5&poid=1429&returnto=270) |  | 3 | C | ITS 36200 FOR LEVEL UG WITH MIN. GRADE OF C AND ITS 36400 FOR LEVEL UG WITH MIN. GRADE OF C |
|  | [ITS 47800 - Advanced Topics in Cybersecurity Practice](https://catalog.pnw.edu/preview_program.php?catoid=5&poid=1429&returnto=270)s |  | 3 | C | ITS 45200 FOR LEVEL UG WITH MIN. GRADE OF C |

Semester Eight **Total Credits** = 15

| **Program Requirements : Designate Program Requirement** | **Subject Code/Course Number** | **(GenEd)****Yes=X** | **Credits****Number** | **Min Grade** | **Prerequisites** |
| --- | --- | --- | --- | --- | --- |
|  | [ITS 45400 - Assured Systems Design And Implementation](https://catalog.pnw.edu/preview_program.php?catoid=5&poid=1429&returnto=270) |  | 3 | C | ITS 45000 FOR LEVEL UG WITH MIN. GRADE OF C OR ITS 45200 FOR LEVEL UG WITH MIN. GRADE OF C |
|  | ITS 47200 - Network Design And Implementation |  | 3 | C | ITS 37200 FOR LEVEL UG WITH MIN. GRADE OF D- |
|  | [ITS 49000 - Senior Project Undergraduate Research](https://catalog.pnw.edu/preview_program.php?catoid=5&poid=1429&returnto=270) |  | 3 | C | ITS 37200 FOR LEVEL UG WITH MIN. GRADE OF C OR ITS 45000 FOR LEVEL UG WITH MIN. GRADE OF C OR ITS 46200 FOR LEVEL UG WITH MIN. GRADE OF C |
|  | ITS 45800 - Advanced Topics in Cyber Forensics Practices  |  | 3 | C | ITS 45200 FOR LEVEL UG WITH MIN. GRADE OF C  |
|  | Selective  |  | 3 | C |  |

 Notes: N/A

1. <http://faculty.pnw.edu/blog/curriculum-document-approval-procedures/> [↑](#footnote-ref-1)