

## Student Outcomes (2022-23) & Continuous Improvement (Assessment) – Last Update: May 2, 2024

### B.S. CIS

The following are the six SLOs that the department evaluates in a **three-year cycle**. The second-cycle results represent follow-up actions based on actions recommended during the previous year assessment.

Graduates of the program will have an ability to:

1. (SLO1) Analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solutions.
2. (SLO2) Design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program's discipline.
3. (SLO3) Communicate effectively in a variety of professional contexts.
4. (SLO4) Recognize professional responsibilities and make informed judgments in computing practice based on legal and ethical principles.
5. (SLO5) Function effectively as a member or leader of a team engaged in activities appropriate to the program's discipline.
6. (SLO6IS) Support the delivery, use, and management of information systems within an information systems environment. [IS]

SLO 1 to 5: Use computing core courses if possible.

SLO 6: Use CIS major core courses.

Data to be broken down by **major**, then by **on-ground / online**.

The annual SLO measurement cycle is as follows:

### 3-Year Cycle 19-21: AY 2019-20 / 2020-21 / 2021-22

| Course  | SLO1                       | SLO2                       | SLO3 | SLO4                   | SLO5                   | SLO6   |
|---|----------------------------|----------------------------|------|------------------------|------------------------|--------|
| CSCI 3300   | Year 1                     | Year 1                     |      |                        |                        |        |
| Client-Side Web Development<br>(updated CIT Major)                | 19-20<br>Met               | 19-20<br>Met               |      |                        |                        |        |
| CSCI 4100<br>Operating Systems and Architecture<br>(CS/CIS Major) |                            | Year 3<br>21-22<br>Not Met |      |                        |                        |        |
| CSCI 4200<br>Principles of Information Security<br>(Comp Core)    | Year 3<br>21-22<br>Met     |                            |      | Year 2<br>20-21<br>Met | Year 3<br>21-22<br>Met |        |
| CSCI 4400<br>Principles of Database Management<br>(Comp Core)     | Year 3<br>21-22<br>Not Met | Year 3<br>21-22<br>Not Met |      |                        |                        |        |
| CSCI 4603   |                            |                            |      |                        |                        | Year 3 |

| Course   | SLO1                   | SLO2                   | SLO3                   | SLO4                   | SLO5                   | SLO6                   |
|--|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|
| Requirements and Project Management (CIS Major)          |                        |                        |                        |                        |                        | 21-22<br>Met           |
| CSCI 4750<br>Systems Analysis and Design (CIS/CIT Major) | Year 1<br>19-20<br>Met | Year 1<br>19-20<br>Met | Year 2<br>20-21<br>Met |                        | Year 3<br>21-22<br>Met | Year 3<br>21-22<br>Met |
| CSCI 4800<br>Senior Seminar (Comp Core)                  |                        |                        | Year 2<br>20-21<br>Met | Year 2<br>20-21<br>Met |                        |                        |

### 3-Year Cycle 22-25: AY 2022-23 / 2023-24 / 2024-25

| Course   | SLO1            | SLO2            | SLO3            | SLO4            | SLO5            | SLO6            |
|--|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| CSCI 4100<br>Operating Systems and Architecture (CS/CIS Major) |                 | Year 1<br>22-23 |                 |                 |                 |                 |
| CSCI 4200<br>Principles of Information Security (Comp Core)    | Year 1<br>22-23 |                 | Year 2<br>23-24 | Year 2<br>23-24 | Year 3<br>24-25 |                 |
| CSCI 4400<br>Principles of Database Management (Comp Core)     | Year 1<br>22-23 | Year 1<br>22-23 |                 |                 |                 |                 |
| CSCI 4603<br>Requirements and Project Management (CIS Major)   |                 |                 |                 |                 |                 | Year 3<br>24-25 |
| CSCI 4750<br>Systems Analysis and Design (CIS/CIT Major)       |                 |                 |                 |                 | Year 3<br>24-25 | Year 3<br>24-25 |
| CSCI 4800<br>Senior Seminar (Comp Core)                        |                 |                 | Year 2<br>23-24 | Year 2<br>23-24 |                 |                 |

Annual SLO measurement cycle:

- Year 1: 2019-2020 AY / 2022-2023 AY
- Year 2: 2020-2021 AY / 2023-2024 AY
- Year 3: 2021-2022 AY / 2024-2025 AY

## B.S. CIT

The following are the six SLOs that the department evaluates in a three-year cycle. The second-cycle results represent follow-up actions based on actions recommended during the previous year assessment.

Graduates of the program will have an ability to:

1. (SLO1) Analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solutions.
2. (SLO2) Design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program's discipline.
3. (SLO3) Communicate effectively in a variety of professional contexts.
4. (SLO4) Recognize professional responsibilities and make informed judgments in computing practice based on legal and ethical principles.
5. (SLO5) Function effectively as a member or leader of a team engaged in activities appropriate to the program's discipline.
6. (SLO6IT) Use systemic approaches to select, develop, apply, integrate, and administer secure computing technologies to accomplish user goals. [IT]

SLO 1 to 5: Use computing core courses if possible.

SLO 6: Use CIT major core courses.

Data to be broken down by **major**, then by **on-ground / online**.

The annual SLO measurement cycle is as follows:

### 3-Year Cycle 19-21: AY 2019-20 / 2020-21 / 2021-22

| Course   | SLO1                       | SLO2   | SLO3                   | SLO4                   | SLO5                   | SLO6                   |
|--|----------------------------|--|------------------------|------------------------|------------------------|------------------------|
| CSCI 3300<br>Client-Side Web<br>Development<br>(updated CIT Major) | Year 1<br>19-20<br>Met     | Year 1<br>19-20<br>Met<br>Year 3<br>21-22<br>Not Met |                        |                        |                        |                        |
| CSCI 4200<br>Principles of<br>Information Security<br>(Comp Core)  | Year 3<br>21-22<br>Met     |  |                        | Year 2<br>20-21<br>Met | Year 3<br>21-22<br>Met |                        |
| CSCI 4400<br>Principles of Database<br>Management<br>(Comp Core)   | Year 3<br>21-22<br>Not Met | Year 3<br>21-22<br>Met                               |                        |                        |                        |                        |
| CSCI 4760 Linux<br>System Administration<br>(CIT Major)            |                            |  |                        |                        |                        | Year 3<br>21-22<br>Met |
| CSCI 4750<br>Systems Analysis and<br>Design (CIS/CIT Major)        | Year 1<br>19-20<br>Met     | Year 1<br>19-20<br>Met                               | Year 2<br>20-21<br>Met |                        | Year 3<br>21-22<br>Met | Year 3<br>21-22<br>Met |

| Course         | SLO1 | SLO2 | SLO3   | SLO4   | SLO5 | SLO6 |
|----------------|------|------|--------|--------|------|------|
| CSCI 4800      |      |      | Year 2 | Year 2 |      |      |
| Senior Seminar |      |      | 20-21  | 20-21  |      |      |
| (Comp Core)    |      |      | Met    | Met    |      |      |

### 3-Year Cycle 22-25: AY 2022-23 / 2023-24 / 2024-25

| Course                             | SLO1   | SLO2   | SLO3   | SLO4   | SLO5   | SLO6   |
|------------------------------------|--------|--------|--------|--------|--------|--------|
| CSCI 3300                          |        | Year 1 |        |        |        |        |
| Client-Side Web                    |        | 22-23  |        |        |        |        |
| Development<br>(updated CIT Major) |        |        |        |        |        |        |
| CSCI 4200                          | Year 1 |        | Year 2 | Year 2 | Year 3 |        |
| Principles of                      | 22-23  |        | 23-24  | 23-24  | 24-25  |        |
| Information Security               |        |        |        |        |        |        |
| (Comp Core)                        |        |        |        |        |        |        |
| CSCI 4400                          | Year 1 | Year 1 |        |        |        |        |
| Principles of Database             | 22-23  | 22-23  |        |        |        |        |
| Management                         |        |        |        |        |        |        |
| (Comp Core)                        |        |        |        |        |        |        |
| CSCI 4760 Linux                    |        |        |        |        |        | Year 3 |
| System Administration              |        |        |        |        |        | 24-25  |
| (CIT Major)                        |        |        |        |        |        |        |
| CSCI 4750                          |        |        |        |        | Year 3 | Year 3 |
| Systems Analysis and               |        |        |        |        | 24-25  | 24-25  |
| Design (CIS/CIT Major)             |        |        |        |        |        |        |
| CSCI 4800                          |        |        | Year 2 | Year 2 |        |        |
| Senior Seminar                     |        |        | 23-24  | 23-24  |        |        |
| (Comp Core)                        |        |        |        |        |        |        |

Annual SLO measurement cycle:

- Year 1: 2019-2020 AY / 2022-2023 AY
- Year 2: 2020-2021 AY / 2023-2024 AY
- Year 3: 2021-2022 AY / 2024-2025 AY

## B.S. CSC

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3. (SLO3) Communicate effectively in a variety of professional contexts.
4. (SLO4) Recognize professional responsibilities and make informed judgments in computing practice based on legal and ethical principles.
5. (SLO5) Function effectively as a member or leader of a team engaged in activities appropriate to the program's discipline.
6. (SLO6CS) Apply computer science theory and software development fundamentals to produce computing-based solutions. [CS]

SLO 1 to 5: Use computing core courses if possible.

SLO 6: Use CS major core courses.

Data to be broken down by **major**, then by **on-ground / online**.

The annual SLO measurement cycle is as follows:

### 3-Year Cycle 19-21: AY 2019-20 / 2020-21 / 2021-22

| Course   | SLO1   | SLO2                       | SLO3 | SLO4                   | SLO5                   | SLO6                       |
|--|--|----------------------------|------|------------------------|------------------------|----------------------------|
| CSCI 3005<br>Object Oriented<br>Programming (CS Major)               | Year 3<br>21-22<br>Not Met                               | Year 3<br>21-22<br>Met     |      |                        |                        |                            |
| CSCI 3250<br>Data Structures and<br>Algorithms<br>(CS Major)         | Year 1<br>19-20<br>Not Met<br>Year 3<br>21-22<br>Not Met | Year 1<br>19-20<br>Not Met |      |                        |                        | Year 3<br>21-22<br>Not Met |
| CSCI 3400<br>Computer Organization<br>I (CS/CIS Major)               | Year 1<br>19-20<br>Not Met                               | Year 1<br>19-20<br>Not Met |      |                        |                        |                            |
| CSCI 4100<br>Operating Systems and<br>Architecture<br>(CS/CIS Major) |  | Year 3<br>21-22<br>Not Met |      |                        |                        |                            |
| CSCI 4200<br>Principles of<br>Information Security<br>(Comp Core)    |  |                            |      | Year 2<br>20-21<br>Met | Year 3<br>21-22<br>Met |                            |

| Course   | SLO1 | SLO2 | SLO3                   | SLO4                   | SLO5                   | SLO6                   |
|--|------|------|------------------------|------------------------|------------------------|------------------------|
| CSCI 4800<br>Senior Seminar<br>(Comp Core)           |      |      | Year 2<br>20-21<br>Met | Year 2<br>20-21<br>Met |                        |                        |
| CSCI 4805<br>Computer Science<br>Capstone (CS Major) |      |      | Year 2<br>20-21<br>Met |                        | Year 3<br>21-22<br>Met | Year 3<br>21-22<br>Met |

### 3-Year Cycle 22-25: AY 2022-23 / 2023-24 / 2024-25

| Course   | SLO1            | SLO2            | SLO3            | SLO4            | SLO5            | SLO6            |
|--|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| CSCI 3005<br>Object Oriented<br>Programming (CS Major)               | Year 1<br>22-23 | Year 1<br>22-23 |                 |                 |                 |                 |
| CSCI 3250<br>Data Structures and<br>Algorithms<br>(CS Major)         | Year 1<br>22-23 |                 |                 |                 |                 | Year 3<br>24-25 |
| CSCI 4100<br>Operating Systems and<br>Architecture<br>(CS/CIS Major) |                 | Year 1<br>22-23 |                 |                 |                 |                 |
| CSCI 4200<br>Principles of<br>Information Security<br>(Comp Core)    |                 |                 | Year 2<br>23-24 | Year 2<br>23-24 | Year 3<br>24-25 |                 |
| CSCI 4800<br>Senior Seminar<br>(Comp Core)                           |                 |                 | Year 2<br>23-24 | Year 2<br>23-24 |                 |                 |
| CSCI 4805<br>Computer Science<br>Capstone (CS Major)                 |                 |                 |                 |                 | Year 3<br>24-25 | Year 3<br>24-25 |

Annual SLO measurement cycle:

- Year 1: 2019-2020 AY / 2022-2023 AY
- Year 2: 2020-2021 AY / 2023-2024 AY
- Year 3: 2021-2022 AY / 2024-2025 AY

## Additional Information

Reports from the Nuventive software are available for review.