**Undergraduate Certificates**

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Name</th>
<th>Grade</th>
<th>Cr</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>ISQA 3310</td>
<td>Mng the DB Environment</td>
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<tr>
<td>ISQA 4300</td>
<td>Info &amp; Data Quality Mgmt</td>
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<tr>
<td>ISQA 4300</td>
<td>Database Administration</td>
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<tr>
<td>ISQA 49990</td>
<td>Data Warehousing &amp; Mining</td>
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**Elective Courses (3 Hrs):**
- ISQA 4380 Distrib Techs and Systems
- ISQA 4730 Decision Support Systems

Remaining: 15 Compl: 0

**Systems Development**

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<tr>
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<tr>
<td>ISQA 3310</td>
<td>Mng the DB Environment</td>
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<tr>
<td>ISQA 3900</td>
<td>Web Application Development</td>
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<tr>
<td>ISQA 3910</td>
<td>Intro to Project Mgmt</td>
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<tr>
<td>ISQA 4110</td>
<td>Info Systems Analysis</td>
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<tr>
<td>ISQA 4210</td>
<td>Sys Design &amp; Implement</td>
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Remaining: 15 Compl: 0

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**MAJOR: MANAGEMENT INFORMATION SYSTEMS**

**Core Courses (12 Hrs):**
- ISQA 3310 Managing the DB Environment -OR-
- ISQA 3370 Database Administration
- ISQA 3900 Web Application Development
- ISQA 3910 Intro to Project Mgmt
- ISQA 4110 Info Systems Analysis
- ISQA 4210 Sys Design & Implement

**Elective Courses (3 Hrs):**
- ISQA 4300 Distributed Technologies
- ISQA 4380 Distributed Database Administration

Remaining: 15 Compl: 0

**IT Administration**

<table>
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<tr>
<th>Course #</th>
<th>Course Name</th>
<th>Grade</th>
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<tbody>
<tr>
<td>IS 201</td>
<td>Data Modeling &amp; DB Systems</td>
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<tr>
<td>IS 212 (UA)**</td>
<td>Open Source Systems Administration &amp; System Development</td>
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<tr>
<td>CYBR 3350</td>
<td>Security Admin-Linux/OS -OR-</td>
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<td>CYBR 3370</td>
<td>Security Admin-Windows</td>
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<tr>
<td>IS 300 (UA)**</td>
<td>Adv DB Systems -OR-</td>
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**Core Courses (12 Hrs):**
- IS 212 (UA)** Information Resource Mgmt
- IS 213 (UA)** Open Source Systems Administration & Systems Development
- CYBR 3350 Security Admin-Linux/OS
- CYBR 3370 Security Admin-Windows
- IS 300 (UA)** Adv DB Systems

**Elective Courses (3 Hrs):**
- ISQA 4300 Distributed Database Administration
- ISQA 4380 Distributed Technologies

Remaining: 15 Compl: 0

**Prerequisites:**
- Two semesters of programming or equivalent work experience and
- ISQA 3310 Managing the DB Environment
- IS 201 Data Modeling & DB Systems

**Core Courses (12 Hrs):**
- IS 212 (UA)** Information Resource Mgmt
- IS 213 (UA)** Open Source Systems Administration & Systems Development
- CYBR 3350 Security Admin-Linux/OS
- CYBR 3370 Security Admin-Windows
- IS 300 (UA)** Adv DB Systems

**Elective Courses (3 Hrs):**
- ISQA 4300 Distributed Database Administration
- ISQA 4380 Distributed Technologies

Remaining: 15 Compl: 0

**Note:** Two semesters of programming or equivalent work experience are required.

**Certificate in Information Technology (IT) Administration**

Through undergraduate certificates, the College of I&T offers a path for individuals not holding a baccalaureate degree to advance their education along a focused, professionally-oriented course of study that can be applied later to a related bachelor degree program.

This matriculation form corresponds to UNO Catalog 2019-2020. Last update: March 2019

*Students are responsible for prerequisite courses. All courses must be C- or higher.