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|   | ONE-YEAR CERTIFICATE DATABASE SYSTEMS | 2025-26 Catalog Effective Summer 2025 |
| | | 5204 |

The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing. Refer to Policy No. 3357:15-13-28.

Business, Engineering, and Information Technologies Division Computer Science and Information Systems Department

| TECHNICAL Course Number | Course Title | Credits | Pre- and Co-Requisites | Completed Sem./Year |
|----------------------------|--|--------------|--|------------------------|
| CIS125 | Data Analysis and Decision Making ▲ | 3 | Pre-Co-AOT226 | |
| CIS221 | Generating Reports for Decision Making ▲ - | 3 | Pre-Co-AOT226 | |
| CPD123 | Structured Query Language | 3 | CPD121 | |
| CPD224 | Microsoft SQL Server Database Administration | 3 | CPD123 | |
| WDD225 | ASP.Net MVC Development ▲ | 3 | CSE122 and WDD121 | |
| WDD226 | Web Development with PHP and MYSQL | 3 | CSE122 and WDD121 | |
| Total | | 18 | | |
| NON-TECH Course Number | Course Title | Credits | Pre- and Co-Requisites | Completed Sem./Year |
| SSC101 | Student Success Seminar^^ | 1 | <i>Take first semester</i> | |
| AOT226 | Spreadsheet Microsoft Excel | 3 | ITD100 or Proficiency | |
| CPD121 | Data Modeling and Database Design^ | 3 | (IDS102 or Proficiency) and (ITD100 or Proficiency) | |
| CSE122 | Programming Logic and Problem Solving^ | 3 | (IDS102 or Proficiency) and (ITD100 or Proficiency) | |
| MTH118 or MTH124 | Quantitative Reasoning^ or Statistics^ | 3 or 3 | <i>Check for Prerequisites</i> | |
| WDD121 | Internet Design and Development^ | 3 | (IDS102 or Proficiency) and (ITD100 or Proficiency) | |
| Total | | 16 | | |
| TOTAL CREDIT HOURS | | 34 | | |

^Based upon SSC placement score

^^To promote student success, this course should be taken in the first semester

▲ - Fall only courses. Please see your academic advisor for availability.

▲ Courses vary by semester. Please see your academic advisor for availability.

Students completing this certificate may be eligible to also receive a Computer Programming and Database – Microsoft SQL Server Career Enhancement Certificate (5206).

The classes in this certificate also apply toward the completion of a Computer Programming and Database Degree (5200).

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PART-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for students who plan to finish in four semesters.

| <u>First Semester</u> | | <u>Credit Hours</u> | <u>Pre- or Co-requisites</u> |
|------------------------|--|---------------------|---|
| SSC101 | Student Success Seminar^^ | 1 | <i>Take first semester</i> |
| CPD121 | Data Modeling and Database Design^ | 3 | (IDS102 or Proficiency) and (ITD100 or Proficiency) |
| CSE122 | Programming Logic and Problem Solving^ | 3 | (IDS102 or Proficiency) and (ITD100 or Proficiency) |
| WDD121 | Internet Design and Development^ | <u>3</u> | (IDS102 or Proficiency) and (ITD100 or Proficiency) |
| | | 10 | |
| <u>Second Semester</u> | | | |
| CPD123 | Structured Query Language | 3 | CPD121 |
| MTH118 | Quantitative Reasoning^ | 3 | <i>Check for Prerequisites</i> |
| or | or | or | |
| MTH124 | Statistics^ | 3 | |
| WDD226 | Web Development with PHP and MYSQL | <u>3</u> | CSE122 and WDD121 |
| | | 9 | |
| <u>Third Semester</u> | | | |
| AOT226 | Spreadsheet Microsoft Excel | 3 | ITD100 or Proficiency |
| CIS221 | Generating Reports for Decision Making▲- | 3 | Pre-Co-AOT226 |
| WDD225 | ASP.Net MVC Development▲ | <u>3</u> | CSE122 and WDD121 |
| | | 9 | |
| <u>Fourth Semester</u> | | | |
| CPD224 | Microsoft SQL Server Database Administration | 3 | CPD123 |
| CIS125 | Data Analysis and Decision Making▲ | <u>3</u> | Pre-Co-AOT226 |
| | | 6 | |
| | TOTAL CREDITS | 34 | |

^Based upon SSC placement score

^^To promote student success, this course should be taken in the first semester

▲ - Fall only courses. Please see your academic advisor for availability.

▲ Courses vary by semester. Please see your academic advisor for availability.