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|  Stark State COLLEGE  | ASSOCIATE OF APPLIED BUSINESS COMPUTER PROGRAMMING AND DATABASE – GEOGRAPHIC INFORMATION SYSTEMS MAJOR <i>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.</i> | 2022-23 Catalog Effective Summer 2022 |
| | 5205 | |

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 |
|---------------------------|---|-----------|---|---------------------|
| CPD123 | Structured Query Language | 3 | CPD121 | |
| CSE235 | Python Development ▲- | 3 | CSE122 | |
| CSE236 | Analyzing Software Requirements and Developing Solutions | 3 | (CIS221 or CSE235 or CSE229 or CSE231 or CSE233 or WDD221 or WDD222 or WDD224 or WDD225 or WDD226) and CPD123 | |
| GIS123 | Maps and Map Reading ▲- | 3 | | |
| GIS231 | Geographic Information Systems ▲+ | 3 | GIS123 or ENV223 | |
| GIS233 | Advanced Tools in Geospatial Technologies ▲- | 3 | GIS231 | |
| GIS234 | Geospatial Technologies in Industry ▲+ | 3 | GIS233 | |
| WDD221 | Web Development with JavaScript ▲+ | 3 | CSE122 and WDD121 | |
| | Select two (2) Technical Electives from the list below ³ ▲ | 6 | Check for prerequisites | |
| Total | | 30 | | |
| NON-TECH Course Number | Course Title | Credits | Pre- and Co-Requisites | Completed Sem./Year |
| SSC101 | Student Success Seminar^^ | 1 | Take first semester | |
| CIS126 | Fundamentals of Information Systems^ | 3 | IDS102 or Proficiency | |
| COM121 | Effective Speaking | 3 | None | |
| or | or | or | or | |
| COM122 | Interpersonal Communication | 3 | None | |
| or | or | or | or | |
| COM123 | Small Group Communication | 3 | IDS102 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) | |
| DET125 | Basic AutoCAD | 3 | | |
| ENG124 | College Composition^ | 3 | Co-ENG024 or Co-ENG011 or Proficiency | |
| MTH118 | Quantitative Reasoning^ | 3 | Pre/Co-MTH018 or MTH022 or MTH023 or Proficiency | |
| WDD121 | Internet Design and Development^ | 3 | (IDS102 or Proficiency) and (ITD100 or Proficiency) | |
| | Select one (1) Arts & Humanities Elective from the list below ¹ | 3 | Check for prerequisites | |
| | Select one (1) Social and Behavioral Sciences Elective from the list below ² | 3 | Check for prerequisites | |
| Total | | 31 | | |
| TOTAL CREDIT HOURS | | 61 | | |

^Based on SSC placement score

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

^ Course offerings vary by semester. Please see your academic advisor for availability.

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

▲+ Spring only courses. Please see your academic advisor for availability.

¹Arts & Humanities Electives: ENG233, ENG234, ENG236, ENG237, HIS121, HIS122, PHL122

²Social and Behavioral Sciences Elective: PSC121, PSY121, PSY123, PSY124, PSY221, SOC121, SOC122, SOC123, SOC221, SOC225

³Technical Electives: CET227, CET236, CPD224, CSE229, CSE231, DET126, DET230, PET101

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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 part-time associate degree students who plan to finish in eight semesters.

| <u>First Semester</u> | | <u>Credit Hours</u> | <u>Pre- and Co-requisites</u> |
|--|--|---------------------|---|
| SSC101 | Student Success Seminar^^ | 1 | <i>Take first semester</i> |
| GIS123 | Maps and Map Reading▲- | 3 | |
| ENG124 | College Composition^ | <u>3</u> | Co-ENG024 or Co-ENG011 or Proficiency |
| | | 7 | |
| <u>Second Semester</u> | | | |
| MTH118 | Quantitative Reasoning^ | 3 | Pre/Co-MTH018 or MTH022 or MTH023 or Proficiency |
| CIS126 | Fundamentals of Information Systems^ | 3 | IDS102 or Proficiency |
| GIS231 | Geographic Information Systems▲+ | <u>3</u> | GIS123 or ENV223 |
| | | 9 | |
| <u>Third Semester</u> | | | |
| 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) |
| | | 6 | |
| <u>Fourth Semester</u> | | | |
| <i>Social and Behavioral Sciences Elective²</i> | | 3 | <i>Check for prerequisites</i> |
| CPD121 | Data Modeling and Database Design^ | 3 | (IDS102 or Proficiency) and (ITD100 or Proficiency) |
| WDD221 | Web Development with JavaScript▲+ | <u>3</u> | CSE122 and WDD121 |
| | | 9 | |
| <u>Fifth Semester</u> | | | |
| CSE235 | Python Development▲- | 3 | CSE122 |
| COM121 | Effective Speaking | 3 | None |
| or | or | or | or |
| COM122 | Interpersonal Communication | 3 | None |
| or | or | or | or |
| COM123 | Small Group Communication | <u>3</u> | IDS102 or Proficiency |
| | | 9 | |
| <u>Sixth Semester</u> | | | |
| CPD123 | Structured Query Language | 3 | CPD121 |
| <i>Arts & Humanities Elective¹</i> | | 3 | <i>Check for prerequisites</i> |
| DET125 | Basic AutoCAD | <u>3</u> | |
| | | 9 | |
| <u>Seventh Semester</u> | | | |
| GIS233 | Advanced Tools in Geospatial Technologies▲- | 3 | GIS231 (CIS221 or CSE235 or CSE229 or CSE231 or CSE233 or WDD221 or WDD222 or WDD224 or WDD225 or WDD226) and CPD123 |
| CSE236 | Analyzing Software Requirements and Developing Solutions | 3 | |
| <i>Technical Elective³▲</i> | | <u>3</u> | <i>Check for prerequisites</i> |
| | | 9 | |
| <u>Eighth Semester</u> | | | |
| GIS234 | Geospatial Technologies in Industry▲+ | 3 | GIS233 |
| <i>Technical Elective³▲</i> | | <u>3</u> | <i>Check for prerequisites</i> |
| | | 6 | |
| TOTAL CREDITS | | 61 | |

^Based on SSC placement score

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

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

▲+ Spring only courses. Please see your academic advisor for availability.

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