

Information Programmer Analyst – Competency is measured by exams mapped to the learning outcomes, which may be viewed at <http://www.bpcc.edu/catalog/current/technologyengineeringmathematics/aas-informationprogrammeranalyst.html>.

Web Analyst Programmer – Competency is measured by exams mapped to the learning outcomes. These may be found at <http://www.bpcc.edu/catalog/current/technologyengineeringmathematics/aas-webanalystprogrammer.html>.

Computer Information Systems – Competency is measured by coursework mapped to the learning outcomes. They may be found at <http://www.bpcc.edu/catalog/current/technologyengineeringmathematics/aas-computerinformationsystems.html>.

2012 ATMAE Team: Mr. Bob Dixon, Mr. Danny Lawson & Dr. Rick Bateman Jr.

AAS Information Systems Administration Specialist: Compliance Partial Compliance Non-Compliance
AAS Oil and Gas Production Technology: Compliance Partial Compliance Non-Compliance
AAS Construction Technology and Management: Compliance Partial Compliance Non-Compliance

BPCC Response:

ATMAE visiting team determined that our programs are in full compliance for this standard.

7.5 Program Structure & Course Sequencing:

Each program/option shall meet minimum foundation semester hour requirements. Programs/options may exceed maximum foundation semester hour requirements specified in each area, but appropriate justification must be provided. A specific list of courses and credit hours that are being counted toward each category shall be included in the Self Study Report (please use the attached table 7.5). Minimum and maximum foundation semester hour requirements for degree programs/options are listed below:

- a. Associate Degree:** Programs/options shall be a minimum of 60 semester hours and shall meet the following minimum/maximum foundation semester hour requirements:

Communications (must include both oral and written courses.....6-9
Mathematics3-12
Physical Sciences*3-12
Management and/or Technical29-45
General Electives0-12

*Life Sciences may be appropriate for selected programs of study.

Students must successfully complete a minimum of 12 semester hours of management and/or technical course work at the institution seeking accreditation.

NOTE: The Board of Certified Safety Professionals (BCSP) evaluates programs in safety designed to gain recognition for students in the safety profession may have specific requirements based on local market needs and on national professional safety practice studies and standards. Examples are BCSP Technical Report #3 and ANSI Z590.2.

Appropriate laboratory activities shall be included in the program/option and a reasonable balance shall be maintained between the practical application of “how” and the conceptual application of “why.” Master’s degree programs and/or options may not have formal laboratory

activities, but must maintain a balance between the practical application of “how” and the conceptual application of “why.”

There shall be evidence of appropriate sequencing of courses in each program/option to ensure that applications of mathematics, science, written and oral communications are covered in technical and management courses. Examples of graded student work and textbooks for each management and/or technical course shall be provided for the visiting team. Further, sequencing should ensure that advanced level courses build upon concepts covered in beginning level courses.

2011 ATMAE Team: Mr. Steve Brown, Mr. David Brinkruff & Mr. Stephen Dunn

The AAS Computer Information Systems program graduation requirements specify a natural science course. This does not necessarily meet the ATMAE requirement for a course in physical science. The college does not have a policy that requires 12 units of technical coursework in residence.

AAS Information Network Security Specialist:	<input type="checkbox"/> Compliance	<input checked="" type="checkbox"/> Partial Compliance	<input type="checkbox"/> Non-Compliance
AAS Information Network Specialist:	<input type="checkbox"/> Compliance	<input checked="" type="checkbox"/> Partial Compliance	<input type="checkbox"/> Non-Compliance
AAS Information Programmer Analyst:	<input type="checkbox"/> Compliance	<input checked="" type="checkbox"/> Partial Compliance	<input type="checkbox"/> Non-Compliance
AAS Web Analyst Programmer:	<input type="checkbox"/> Compliance	<input checked="" type="checkbox"/> Partial Compliance	<input type="checkbox"/> Non-Compliance
AAS Computer Information Systems:	<input type="checkbox"/> Compliance	<input checked="" type="checkbox"/> Partial Compliance	<input type="checkbox"/> Non-Compliance

BPCC Response:

Categories	Required Hours	Program 1 AAS Information Network Security Specialist	Program 2 AAS Information Network Specialist	Program 3 AAS Information Programmer Analyst	Program 4 AAS Web Analyst Programmer	Program 5 AAS Computer Information Systems
Communications	6-9	6	6	6	6	9
Mathematics	3-12	3	3	3	3	3
Physical Sci	3-12	3	3	3	3	0
Mgt &/or Tech.	29-45	42	39	39	39	33
General Electives	0-12	9	9	9	9	12

The following range of electives were discussed and defined by each program’s Advisory Board as Physical Science Electives in place of requiring PHSC 105: Elemental Physics:

- CHEM 101 General Chemistry 1
- CHEM 107 Introductory Chemistry
- PHYSC 105 Elemental Physics
- PHYSC 106 Elemental Chemistry
- PHYSC 107 Environmental Science
- PHSC 110 Astronomy
- PHSC 111 Physical Geology
- PHSY 201 General Physics I

- SCI 101 Foundations in Science.

The Advisory Board minutes may be found at:
<http://www.bpcc.edu/tem/advisoryboard/minutes.html>.

Network Security Specialist – A range of electives were defined as Physical Science electives by the Advisory Board on December 12, 2011. The minutes can be found at <http://bpcc.edu/tem/advisoryboard/documents/inss-minutes121211.pdf>. Please see the list above for elective options.

Network Specialist – A range of electives were defined as Physical Science electives by the Advisory Board on December 12, 2011. The minutes can be found at <http://bpcc.edu/tem/advisoryboard/documents/ins-minutes121211.pdf>. Please see the list above for elective options.

Programmer Analyst – A range of electives were defined as Physical Science electives by the Advisory Board on October 7, 2011. The minutes can be found at <http://bpcc.edu/tem/advisoryboard/documents/ipa-minutes100711.pdf>. Please see the list above for elective options.

Web Analyst Programmer – A range of electives were defined as Physical Science electives by the Advisory Board on October 13, 2011. The minutes can be found at <http://bpcc.edu/tem/advisoryboard/documents/wa-minutes-oct2011.pdf>. Please see the list above for elective options.

Computer Information Systems – A range of elective were defined as Physical Science electives by the Advisory Board on October 6, 2011. The minutes can be found at <http://bpcc.edu/tem/advisoryboard/documents/cis-minutes100611.pdf>. Please see the list above for elective options.

2012 ATMAE Team: Mr. Bob Dixon, Mr. Danny Lawson & Dr. Rick Bateman Jr.

The AAS degree program in Information Systems Administration Specialist is in compliance. The Oil and Gas Production Technology and Construction Technology and Management programs are in partial compliance because they do not contain a stand alone course covering oral communication. To the credit of these two programs, there are ample examples of oral presentation requirements embedded in multiple courses, and these examples exhibit quality work. However, there is no documentation in course syllabi, section information sheets, course calendars, textbooks, instructional presentations, or in any other resource of embedded instructional content relative to the preparation and delivery of technical research projects.

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BPCC Response:

Categories	Req'd Hours	Pro/Opt 1 AAS Information Systems Administration Specialist	Pro/Opt 2 AAS Oil and Gas Production Technology	Pro/Opt 3 AAS Construction Technology and Management
Communications	6-9	6	3	3

Mathematics	3-12	3	6	6
Physical Sci	3-12	3	3	4
Mgt &/or Tech.	29-45	42	48	47
General Electives	0-12	6	3	3

Oral communication learning outcomes were added to the following courses for the AAS Oil and Gas Production Technology degree Master Syllabi. Please see links below or APPENDIX C 7.5:

- OGPT 207: <http://www.bpcc.edu/academics/syllabi/ogpt/ogpt207.pdf>
- OGPT 217: <http://www.bpcc.edu/academics/syllabi/ogpt/ogpt217.pdf>
- OGPT 280: <http://www.bpcc.edu/academics/syllabi/ogpt/ogpt280.pdf>

Oral communication learning outcome were added to the following courses for the AAS Construction Technology and Management degree Master Syllabi. Please see links below or APPENDIX D 7.5:

- CONS 101: <http://www.bpcc.edu/academics/syllabi/cons/cons101.pdf>
- CONS 102: <http://www.bpcc.edu/academics/syllabi/cons/cons102.pdf>
- CONS 150: <http://www.bpcc.edu/academics/syllabi/cons/cons150.pdf>
- CONS 250: <http://www.bpcc.edu/academics/syllabi/cons/cons250.pdf>

7.6 Student Admission & Retention Standards:

There shall be evidence showing that the quality of technology, management, and applied engineering students is comparable to the quality of students enrolled in other majors at the institution. The standards for admission and retention of technology, management, and applied engineering students shall compare favorably with institutional standards. Sources of admission information may include test scores and grade rankings. Sources of retention information shall include general grade point averages of technology, management, and applied engineering students compared to programs in other institutional programs.

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