

Graphic Arts and Imaging Technology

The Graphics Arts and Imaging Technology curriculum is designed to provide students with the knowledge and skills necessary for employment in the printing, publishing, packaging, and related industries.

Students receive hands-on training in graphic design software like Adobe Illustrator, Photoshop, and InDesign, imaging technology, offset lithography, screen printing, flexography, digital, wide-format, and emerging printing technologies.

Graduates should qualify for career opportunities within the printing, publishing, and packaging industries. Position titles that a graduate could achieve would include: pre-press technician, technical representative, press operator, quality control technician, customer service representative, small business owner, graphic applicator, plate-maker, color specialist, print operator, or floor supervisor.

For specific information about potential positions and wages in graphic arts and imaging employment, visit the Central Piedmont Career Coach website.

Graphic Arts and Imaging Technology (A30180)

Degree Awarded

The Associate in Applied Science degree-Graphic Arts and Imaging Technology is awarded by the college upon completion of this program.

Admissions

- A high school diploma or equivalent is required.
- Submit high school transcripts and any college transcripts.
- Placement testing in English, mathematics, and reading is required to qualify for ENG 111 and college-level math. Scores on placement tests may require students to take specified Developmental Studies courses. If required, completion of these courses is necessary prior to program admission. Students may, with the approval of the program chair, take no more than two pre-admission courses during their first semester of program admission.
- Students must demonstrate proficiency in computer operation equivalent to or higher than CIS 110 before admission.
- Many courses have prerequisites or co-requisites; check the Courses section for details.

Notes

Students must furnish required hand tools for the program. A list of these items can be obtained from the program chair or instructors.

Contact Information

The Graphic Arts and Imaging Technology program is in the Skilled Trades Division. For more information, call the program office at 704.330.4425 or contact the program chair at 704.330.4427. For suggested course sequence, contact Graphic Arts and Imaging Technology instructors or program counselors through the program office.

General Education Requirements

| | | |
|---------|---------------------|-----|
| ENG 111 | Writing and Inquiry | 3.0 |
|---------|---------------------|-----|

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|------------------------------------|---|-----|
| COM 110 | Introduction to Communication | 3.0 |
| or COM 231 | Public Speaking | |
| Take 3 credits from the following: | | 3.0 |
| ENG 112 | Writing and Research in the Disciplines | |
| ENG 113 | Literature-Based Research | |
| ENG 114 | Professional Research & Reporting | |
| Take 1 course from the following: | | 3.0 |
| MAT 110 | Mathematical Measurement and Literacy | |
| MAT 143 | Quantitative Literacy | |
| Select 3 credits of the following: | | 3.0 |
| ART 111 | Art Appreciation | |
| ART 114 | Art History Survey I | |
| ART 115 | Art History Survey II | |
| DRA 111 | Theatre Appreciation | |
| HUM 120 | Cultural Studies | |
| HUM 130 | Myth in Human Culture | |
| MUS 110 | Music Appreciation | |
| MUS 112 | Introduction to Jazz | |
| PHI 215 | Philosophical Issues | |
| PHI 240 | Introduction to Ethics | |
| REL 110 | World Religions | |
| Select 3 credits of the following: | | 3.0 |
| ECO 251 | Principles of Microeconomics | |
| ECO 252 | Principles of Macroeconomics | |
| HIS 111 | World Civilizations I | |
| HIS 112 | World Civilizations II | |
| HIS 131 | American History I | |
| HIS 132 | American History II | |
| POL 120 | American Government | |
| PSY 150 | General Psychology | |
| SOC 210 | Introduction to Sociology | |

Major Requirements

| | | |
|---------|--------------------------|-----|
| ACA 122 | College Transfer Success | 1.0 |
| GRA 121 | Graphic Arts I | 4.0 |
| GRA 221 | Graphic Arts II | 4.0 |
| GRA 151 | Computer Graphics I | 2.0 |
| GRA 152 | Computer Graphics II | 2.0 |
| GRA 153 | Computer Graphics III | 2.0 |
| GRA 255 | Image Manipulation I | 2.0 |
| GRA 256 | Image Manipulation II | 2.0 |
| GRD 141 | Graphic Design I | 4.0 |
| PRN 155 | Screen Printing I | 2.0 |
| PRN 131 | Flexography I | 4.0 |
| WBL 111 | Work-Based Learning I | 1.0 |

Technical Electives

| | | |
|---------------------------------------|--------------------------|------|
| Select 20 credits from the following: | | 20.0 |
| GRA 222 | Graphic Arts III | |
| GRA 154 | Computer Graphics IV | |
| GRA 140 | Graphic Arts Imaging | |
| GRA 110 | Graphic Arts Orientation | |
| PRN 156 | Screen Printing II | |
| WBL 112 | Work-Based Learning I | |

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|---------------|---|
| PRN 171 | Introduction to Brand Protection and Anti-Counterfeiting Technology |
| PRN 271 | Graphic Imaging for Brand Protection and Anti-Counterfeiting Technology |
| PRN 272 | Brand Protection and Anti-Counterfeiting Technology Implementation |
| WBL 122 | Work-Based Learning II |
| BUS 110 | Introduction to Business |
| BUS 139 | Entrepreneurship I |
| MKT 120 | Principles of Marketing |
| CIS 110 | Introduction to Computers |
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| Total Credits | 68 |

Graphic Arts and Imaging Technology Flexography Concentration (A3018A)

Flexography is a concentration under the Graphic Arts and Imaging Technology curriculum. This curriculum is designed to allow students to gain further study into the flexographic printing production process.

Students produce jobs for labels, tags, boards, packaging and corrugated jobs found in segments of the flexographic industry. Students concentrate on color reproduction and produce products while understanding the limitations within the production process.

Graduates should qualify for career opportunities within the printing, publishing and packaging industries.

Degree Awarded

The Associate in Applied Science-Graphic and Imaging Technology/ Flexography degree is awarded by the college upon completion of this program.

Admissions

- A high school diploma or equivalent is required.
- Submit high school transcripts and any college transcripts.
- Placement testing in English, mathematics and reading is required to qualify for ENG 111 and college-level math. Scores on placement tests may require students to take specified Developmental Studies courses. If required, completion of these courses is necessary prior to program admission. Students may, with approval of the program chair, take no more than two pre-admission courses during their first semester of program admission.
- Students must demonstrate proficiency in computer operations equivalent to or higher than CIS 110 before admission.
- Many courses have prerequisites or co-requisites; check the Courses section for details.

Notes

Students must furnish required hand tools for program. A list of these items can be obtained from the program chair or instructors.

Contact Information

Graphic and Imaging Technology Flexography is in the Skilled Trades Division. For more information, call 704.330.4425 or 704.330.4427. See Graphic Arts and Imaging Technology Program instructors or program counselors for suggested sequence of courses.

General Education Requirements

| | | |
|------------------------------|---|-----|
| ENG 111 | Writing and Inquiry | 3.0 |
| Select one of the following: | | 3.0 |
| ENG 112 | Writing and Research in the Disciplines | |
| ENG 113 | Literature-Based Research | |
| ENG 114 | Professional Research & Reporting | |
| COM 110 | Introduction to Communication | |
| COM 231 | Public Speaking | |
| Select one of the following: | | 3.0 |
| MAT 110 | Mathematical Measurement and Literacy | |
| MAT 143 | Quantitative Literacy | |

| | | |
|------------------------------------|------------------------|-----|
| Select 3 credits of the following: | | 3.0 |
| ART 111 | Art Appreciation | |
| ART 114 | Art History Survey I | |
| ART 115 | Art History Survey II | |
| DRA 111 | Theatre Appreciation | |
| HUM 120 | Cultural Studies | |
| HUM 130 | Myth in Human Culture | |
| MUS 110 | Music Appreciation | |
| MUS 112 | Introduction to Jazz | |
| PHI 215 | Philosophical Issues | |
| PHI 240 | Introduction to Ethics | |
| REL 110 | World Religions | |

| | | |
|------------------------------------|------------------------------|-----|
| Select 3 credits of the following: | | 3.0 |
| ECO 251 | Principles of Microeconomics | |
| ECO 252 | Principles of Macroeconomics | |
| HIS 111 | World Civilizations I | |
| HIS 112 | World Civilizations II | |
| HIS 131 | American History I | |
| HIS 132 | American History II | |
| POL 120 | American Government | |
| PSY 150 | General Psychology | |
| SOC 210 | Introduction to Sociology | |

Major Requirements

| | | |
|---------|--------------------------|-----|
| ACA 122 | College Transfer Success | 1.0 |
| GRA 121 | Graphic Arts I | 4.0 |
| GRA 221 | Graphic Arts II | 4.0 |
| GRA 151 | Computer Graphics I | 2.0 |
| GRA 152 | Computer Graphics II | 2.0 |
| GRA 153 | Computer Graphics III | 2.0 |
| GRA 255 | Image Manipulation I | 2.0 |
| GRA 256 | Image Manipulation II | 2.0 |
| PRN 131 | Flexography I | 4.0 |
| GRD 141 | Graphic Design I | 4.0 |
| PRN 132 | Flexography II | 4.0 |
| PRN 231 | Flexography III | 4.0 |
| PRN 232 | Flexography IV | 4.0 |
| PRN 241 | Flexo Applications I | 4.0 |
| PRN 242 | Flexo Applications II | 4.0 |
| WBL 111 | Work-Based Learning I | 1.0 |

Technical Electives

Select 8.0 credits from the following: 8.0

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| PRN 155 | Screen Printing I | |
| PRN 156 | Screen Printing II | |
| PRN 171 | Introduction to Brand Protection and Anti-Counterfeiting Technology | |
| PRN 271 | Graphic Imaging for Brand Protection and Anti-Counterfeiting Technology | |
| PRN 272 | Brand Protection and Anti-Counterfeiting Technology Implementation | |
| WBL 112 | Work-Based Learning I | |
| WBL 122 | Work-Based Learning II | |
| BUS 110 | Introduction to Business | |
| MKT 120 | Principles of Marketing | |
| Total Credits | | 71 |

No diplomas are offered in Graphics Arts and Imaging Technology.

Graphic Arts and Imaging Technology Certificates (C30180)

- Graphic Arts and Imaging Technology Certificate Specialization in Screen Printing Company Ownership (C30180-14) (p. 3)
- Graphic Arts and Imaging Technology Certificate Specialization in Brand Protection and Anti-Counterfeiting Technology (C30180-20) (p. 3)
- Graphic Arts and Imaging Technology Certificate Specialization in Graphic Production Applications (C30180-22)

Graphic Arts and Imaging Technology Certificate Specialization in Screen Printing Company Ownership (C30180-14)

Major Requirements:

| | | |
|---------------|---------------------|-----|
| PRN 156 | Screen Printing II | 2.0 |
| BUS 139 | Entrepreneurship I | 3.0 |
| GRA 121 | Graphic Arts I | 4.0 |
| PRN 155 | Screen Printing I | 2.0 |
| GRA 151 | Computer Graphics I | 2.0 |
| Total Credits | | 13 |

Graphic Arts and Imaging Technology Certificate Specialization in Brand Protection and Anti-Counterfeiting Technology (C30180-20)

Major Requirements

| | | |
|---------------|---|-----|
| GRA 121 | Graphic Arts I | 4.0 |
| PRN 131 | Flexography I | 4.0 |
| PRN 171 | Introduction to Brand Protection and Anti-Counterfeiting Technology | 2.0 |
| PRN 271 | Graphic Imaging for Brand Protection and Anti-Counterfeiting Technology | 2.0 |
| PRN 272 | Brand Protection and Anti-Counterfeiting Technology Implementation | 3.0 |
| Total Credits | | 15 |

This certificate program is designed to educate individuals looking to enter the security printing industry. This program will include important topics geared toward understanding how counterfeiting is impacting world trade

and what technologies are in place to deter brand infringement. Students will learn the many ways a brand can be impacted by criminals. They will gain the skills required to develop and implement a plan of protection for a brand. Students who complete this certificate will understand the legal aspects and scope of counterfeiting, be knowledgeable in the technologies designed to combat counterfeiting, and be able to develop a plan of protection for a brand to reduce infringement to their intellectual property.

Graphic Arts and Imaging Technology Certificate Specialization in Graphic Production Applications (C30180-22)

Major Requirements

| | | |
|---------------|---|-----|
| GRA 121 | Graphic Arts I | 4.0 |
| GRA 151 | Computer Graphics I | 2.0 |
| PRN 131 | Flexography I | 4.0 |
| PRN 171 | Introduction to Brand Protection and Anti-Counterfeiting Technology | 2.0 |
| PRN 155 | Screen Printing I | 2.0 |
| Total Credits | | 14 |

This certificate is designed to educate the student to be prepared to gain employment into the graphic and packaging industry. Students would be exposed to the entire process of graphic production from idea to finished, printed product. They would learn a variety of graphic processes like screen printing, flexography, digital, and wide-format. Products that students would create and produce would be labels/packaging, garments/shirts, flyers, business cards, posters, and wall graphics. Students would gain fundamental skills in Adobe Illustrator, InDesign, and Photoshop and how these skills are applied in a production setting. Completion of this certificate would assist a student who is looking to find a career in graphic print production.

The following is the suggested plan for when to take each course to complete the Associate in Applied Science degree, based on the program requirements of the 2022-2023 catalog. This is only a recommendation — you may take courses in another order upon consultation with your advisor. This plan is based on you starting with college-level math and English courses, starting your program in the fall, and attending full-time. You can also follow this sequence if you attend part-time. Speak with an advisor about the plan and any questions. This program might also offer diplomas or certificates; visit the catalog or contact the program for details.

Graphic Arts and Imaging Technology - Flexography suggested course sequence