

At JCC, academic areas are organized into six career pathways to address the variety of career and training options in related fields. Within each career pathway, students can choose between certificate and associate degree programs designed to provide skills for immediate employment or job advancement. Each career pathway also offers several transfer programs for students who plan to pursue advanced degrees at four-year colleges or universities. Based on their career goals, JCC students can find a career pathway that matches their knowledge, skills and attributes. The six career pathways are:

- Arts & Communication
- Business, Management, Marketing & Technology
- Engineering/Manufacturing & Industrial Technology
- Health Sciences
- Human Services
- Natural Resources & Agriscience

ARTS & COMMUNICATION CAREER PATHWAY

This pathway includes careers related to the humanities and the performing, visual, literary and media arts. This career path may include careers in writing, journalism, web design, foreign language, radio and television broadcasting and public relations.

DEGREES/CERTIFICATES

Visual Communication

- Graphic Design
- Web Design

TRANSFER PROGRAMS IN THE ARTS & COMMUNICATION PATHWAY

The first two years of a student's college education usually consist of general education courses, introductory courses in a major and/or program of study and selected electives. Refer to pages 36 for additional information on transfer and MACRAO. Academic advisors will assist students in planning their transfer program. They can also provide transfer guide sheets indicating JCC courses that meet the requirements of various programs of study at four-year colleges. Sample curricula for a few popular transfer programs are included.

- Art • English • History • Music • Theatre

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STUDIO ART– CERTIFICATE

The Studio Art Certificate provides students with the foundational skills to expand their portfolio and helps equip them for application to fine arts degree programs or a career in the arts. The curriculum encourages individual creativity and expression while emphasizing the development of basic studio skills.

Typical job opportunities are: advertising artist, art consultant, artist, auto detailer/pin-stripper, billboard artist, calligrapher, cartoonist, CD/record cover designer, courtroom sketcher, decorator, display designer, fashion artist/designer, freelance letter/designer, illustrator, magazine/catalog illustration, mural artist, newspaper artist, publication design and tattoo artist.

This program also consists of the foundational courses needed for an associate degree.

Minimum credits:	30
Minimum cumulative GPA:	2.0
Minimum grade in all courses:	2.0
Minimum JCC credits:	12
MACRAO Agreement:	No

GENERAL EDUCATION REQUIREMENTS - (9 credits)

ENG 131 Writing Experience	3
MTH 120 Beginning Algebra or higher	3
SPH 231 Communication Fundamentals	3

STUDIO ART CORE REQUIREMENTS - (15 credits)

ART 101 Two-Dimensional Design	3
ART 103 Drawing I: Foundations	3
ART 112 Art History: Renaissance to Present	3
ART 121 Ceramics I	3
ART 201 Three-Dimensional Design	3

ELECTIVES - (6 credits)

Select selectives from ART 111, ART 122, ART 152, ART 205, ENG 210

SUGGESTED COURSE SEQUENCE

First Year, Fall Semester

ART 101, ART 103, ART 121, ENG 131, SPH 231

First Year, Winter Semester

ART 201, ART 112, MTH 120 or higher and 6 elective credits

TECHNICAL THEATRE – CERTIFICATE

This 30-hour program prepares students through coursework and hands-on-experience for work in technical theater. The certificate includes a range of topics designed to give students experience in basic skills and knowledge to work behind the scenes in theatre or other venues.

Typical job opportunities are exhibit/display designer, lighting designer, lighting operator, scene painter, stage/set designer, stage manager, and visual/sound effects. This program also consists of the foundational courses needed for an associate degree.

Minimum credits:	30
Minimum cumulative GPA:	2.0
Minimum grade in all courses:	2.0
Minimum JCC credits:	12
MACRAO Agreement:	No

GENERAL EDUCATION REQUIREMENTS - (9 credits)

ENG 131 Writing Experience	3
MTH 120 Beginning Algebra or higher	3
SPH 231 Communication Fundamentals	3

TECHNICAL THEATRE CORE REQUIREMENTS - (21 credits)

THR 102 Theatre Activities	1
THR 116 Introduction to Theatre	3
THR 131 Stagecraft I	3
THR 134 Stagecraft II	3
THR 145 Fundamentals of Acting I	4
THR 201 Backstage Certification	1
THR 241 Lighting for Stage & Video	3
THR 242 Sound for Stage & Video or THR 151 Make-Up for Stage and Video	3

SUGGESTED COURSE SEQUENCE

First Year, Fall Semester

ENG 131, THR 116, THR 131, THR 145, MTH 120 or higher

First Year, Winter Semester

SPH 231, THR 102, THR 134, THR 201, THR 241 and THR 242 or THR 151

VIDEO PRODUCTION – CERTIFICATE

This 30-hour program prepares students through course work and hands-on experience for work in video production. The certificate includes a range of courses designed to give students experience in basic skills and knowledge to work in digital video.

Typical job opportunities are advertising, camera operator, video production, independent filmmaker, lighting technician, audio mixer, teleprompter, video editor and video technician.

This program also consists of the foundational courses needed for an associate degree.

Minimum credits:	30
Minimum cumulative GPA:	2.0
Minimum grade in all courses:	2.0
Minimum JCC credits:	12
MACRAO Agreement:	No

GENERAL EDUCATION REQUIREMENTS - (9 credits)

ENG 131 Writing Experience	3
MTH 120 Beginning Algebra or higher	3
SPH 231 Communication Fundamentals	3

VIDEO PRODUCTION CORE REQUIREMENTS - (21 credits)

ART 103 Drawing I: Foundations or CIS 134 Graphic Imaging (Adobe Photoshop)	3
ENG 210 Introduction to Film	3
THR 131 Stagecraft I	3
THR 241 Lighting for Stage & Video	3
THR 242 Sound for Stage & Video	3
VID 101 Video Production I	3
VID 120 Video Production II	3

SUGGESTED COURSE SEQUENCE

First Year, Fall Semester

ART 103 or CIS 134, ENG 131, MTH 120, THR 131, VID 101

First Year, Winter Semester

ENG 210, SPH 231, THR 241, THR 242, VID 120

VISUAL COMMUNICATION/ GRAPHIC DESIGN — ASSOCIATE IN APPLIED SCIENCE

The graphic design program prepares students for entry-level positions in design organizations. Graphic design graduates find employment in a variety of settings including the publication and printing industries, advertising and marketing organizations, and graphic design department of corporations, government agencies and retailers.

Minimum credits:	63
Minimum cumulative GPA:	2.0
Minimum grade in all courses:	2.0
Minimum JCC credits:	12
MACRAO Agreement:	No

GENERAL EDUCATION REQUIREMENTS — (17 credits)

ENGLISH (3 credits)

ENG 131 Writing Experience	3
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MATHEMATICS — (3 credits)

MTH 120 Beginning Algebra or higher	4
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SCIENCE — (4 credits)

Choose one of the following:

BIO 131 General Biology 4
 BIO 132 Human Biology 4
 CEM 131 Fundamentals of Chemistry 4
 CEM 141 General Chemistry I 5
 GEL 160 Introduction to Geology 4
 NSC 131 Contemporary Science 4
 PHY 131 Conceptual Physics 4
 PHY 151 Astronomy 4

SOCIAL SCIENCE — (3 credits)

ECN 231 Macroeconomics 3
 ECN 232 Microeconomics 3

HUMANITIES — (3 credits)

Choose one of the following:

ART 111 Art History: Prehistoric to 1400 3
 ART 112 Art History: Renaissance to Present 3
 ENG 210 Introduction to Film 3
 ENG 236 Women in a Changing Society 3
 ENG 246 Short Story & Novel 3
 ENG 247 Poetry and Drama 3
 ENG 249 African American Literature 3
 ENG 252 Shakespeare 3
 ENG 254 Children’s Literature 3
 ENG 255 American Literature -19th Century 3
 ENG 256 American Literature -20th Century 3
 ENG 257 World Literature I 3
 HUM 131 Cultural Connections 3
 MUS 130 Survey of Non-Western Music 3
 MUS 131 Understanding Music 3
 MUS 132 History of American Popular Music 3
 MUS 133 Music Education 3
 MUS 151 Music Theory I 4
 MUS 152 Music Theory II 4
 PHL 231 Introduction to Philosophy 3
 PHL 232 Logic 3
 THR 116 Introduction to Theatre 3

HEALTH/PHYSICAL FITNESS — (1 credit)

Choose one of the following:

HPF 160 Wellness 1
 HPF 168 Weight Training & Conditioning 2
 HPF 221 Jazz Techniques 3
 HPF 277 Stress Management 2

RELATED REQUIREMENTS — (15 credits)

BUA 100 Contemporary Business 3
 BUA 120 Human Relations in Business 3
 BUA 231 Advertising, Promotion and Public Relations 3
 CIS 101 Introduction to Computer Systems 3
 ENG 232 Technical & Business Writing 3

GRAPHIC DESIGN CORE REQUIREMENTS — (25 credits)

CIS 128 Typography & Layout 3
 CIS 132 Graphic Illustration (Adobe® Illustrator®) 3
 CIS 134 Graphic Imaging (Adobe® Photoshop®) 3
 CIS 136 Integrated Design I (Adobe® InDesign®) 3
 CIS 230 Practicum in Printing 4
 CIS 232 Integrated Design II (Adobe® InDesign®) 3
 CIS 234 Graphic Technology Applications 3
 CIS 245 Internship 3

ADDITIONAL REQUIREMENTS - (6 credits)

Choose two of the following ART courses:

ART 101 Two-Dimensional Design 3
 ART 103 Drawing 3
 ART 152 Painting & Composition 3

SUGGESTED COURSE SEQUENCE

First Year, Fall Semester

ART 101, 103 or 152, CIS 101, CIS 128, CIS 132

First Year, Winter Semester

ART 101, 103 or 152, BUA 100, CIS 134, ENG 131

First Year, Spring Semester

Health & Physical Fitness requirement, Science requirement and Social Science requirement

Second Year, Fall Semester

BUA 120, CIS 136, CIS 230, ENG 232

Second Year, Winter Semester

BUA 231, CIS 232, CIS 234, MTH 120 or higher

Second Year, Spring Semester

CIS 245, Humanities requirement

**VISUAL COMMUNICATION/
 GRAPHIC DESIGN — CERTIFICATE**

Minimum credits: 40
 Minimum cumulative GPA: 2.0
 Minimum grade in all courses: 2.0
 Minimum JCC credits: 12
 MACRAO Agreement: No

GENERAL EDUCATION REQUIREMENTS - (9 credits)

CIS 101 Introduction to Computer Systems 3
 ENG 131 Writing Experience 3
 MTH 120 Beginning Algebra or higher 3

GRAPHIC DESIGN CORE REQUIREMENTS - (25credits)

CIS 128 Typography & Layout 3
 CIS 132 Graphic Illustration (Adobe® Illustrator®) 3

CIS 134 Graphic Imaging (Adobe® Photoshop®)	3
CIS 136 Integrated Design I (Adobe® InDesign®)	3
CIS 230 Practicum in Printing	4
CIS 232 Integrated Design II (Adobe® InDesign®)	3
CIS 234 Graphic Technology Applications	3
CIS 245 Internship	3

ADDITIONAL REQUIREMENTS - (6 credits)**Choose two of the following ART courses:**

ART 101 Two-Dimensional Design	3
ART 103 Drawing	3
ART 152 Painting & Composition	3

SUGGESTED COURSE SEQUENCE**First Year, Fall Semester**

ART 101, 103, or 152, CIS 101, CIS 128, CIS 136

First Year, Winter Semester

ART 101, 103, or 152, CIS 134, CIS 232, CIS 234

First Year, Spring Semester

ENG 131, MTH 120 or higher

Second Year, Fall Semester

CIS 132, CIS 230, CIS 245

**VISUAL COMMUNICATION/
WEB DESIGN – ASSOCIATE IN
APPLIED SCIENCE**

A web designer combines type, graphics, animation, sound, and programming to create a complete experience for the web visitor. Web design is a cooperative process, and the designer may work with interface designers, marketing professionals, engineers, and computer technicians.

Minimum credits:	62
Minimum cumulative GPA:	2.0
Minimum grade in all courses:	2.0
Minimum JCC credits:	12
MACRAO Agreement:	No

GENERAL EDUCATION REQUIREMENTS – (17 credits)**ENGLISH – (3 credits)**

ENG 131 Writing Experience	3
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MATHEMATICS – (3 credits)

MTH 120 Beginning Algebra or higher	3
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SCIENCE – (4 credits)**Choose one of the following:**

BIO 131 General Biology	4
BIO 132 Human Biology	4

CEM 131 Fundamentals of Chemistry	4
CEM 141 General Chemistry I	5
GEL 160 Introduction to Geology	4
NSC 131 Contemporary Science	4
PHY 131 Conceptual Physics	4
PHY 151 Astronomy	4

SOCIAL SCIENCE – (3 credits)

ECN 231 Macroeconomics	3
ECN 232 Microeconomics	3

HEALTH/PHYSICAL FITNESS – (1 credit)**Choose one of the following:**

HPF 160 Wellness	1
HPF 168 Weight Training & Conditioning	2
HPF 221 Jazz Techniques	3
HPF 277 Stress Management	2

HUMANITIES – (3 credits)**Choose one of the following:**

ART 111 Art History: Prehistoric to 1400	3
ART 112 Art History: Renaissance to Present	3
ENG 236 Women in a Changing Society	3
ENG 246 Short Story & Novel	3
ENG 247 Poetry and Drama	3
ENG 249 African American Literature	3
ENG 252 Shakespeare	3
ENG 255 American Literature-19th Century	3
ENG 256 American Literature-20th Century	3
ENG 257 World Literature I	3
HUM 131 Cultural Connections	3
MUS 131 Understanding Music	3
MUS 132 History of American Popular Music	3
MUS 133 Music Education	3
MUS 151 Music Theory I	4
MUS 152 Music Theory II	4
PHL 231 Introduction to Philosophy	3
PHL 232 Logic	3
THR 116 Introduction to Theatre	3

RELATED REQUIREMENTS – (15 credits)

BUA 100 Contemporary Business	3
BUA 120 Human Relations in Business	3
BUA 231 Advertising, Promotion and Public Relations	3
CIS 101 Introduction to Computer Systems	3
ENG 232 Technical & Business Writing	3

WEB DESIGN CORE REQUIREMENTS – (30 credits)

ART 201 Three-Dimensional Design	3
CIS 023 Microsoft® FrontPage® Workshop	1
CIS 122 Microsoft® Access® Comprehensive	3
CIS 132 Graphic Illustration (Adobe® Illustrator®)	3
CIS 134 Graphic Imaging (Adobe® Photoshop®)	3

CIS 143 HTML	2
CIS 144 Web Page Design (Dreamweaver®)	3
CIS 232 Integrated Design II (Adobe® InDesign®)	3
CIS 243 Web Animation (Macromedia® Flash®)	3
CIS 244 Web Programming	3
CIS 246 Web Integration with Database	3

SUGGESTED COURSE SEQUENCE

First Semester

ENG 131, CIS 023, CIS 101, CIS 143, Science Requirement

Second Semester

ART 201, BUA 100, CIS 122, CIS 246, Humanities Requirement

Third Semester

MTH 120 or higher, Health and Physical Fitness Requirement

Fourth Semester

BUA 120, CIS 132, CIS 243, ENG 232

Fifth Semester

BUA, 231, CIS 134, CIS 232, Social Science Requirement

Sixth Semester

CIS 144, CIS 244

VISUAL COMMUNICATION/ WEB DESIGN — CERTIFICATE

Minimum credits:	39
Minimum cumulative GPA:	2.0
Minimum grade in all courses:	2.0
Minimum JCC credits:	12
MACRAO Agreement:	No

GENERAL EDUCATION REQUIREMENTS — (9 credits)

CIS 101 Introduction to Computer Systems	3
ENG 131 Writing Experience	3
MTH 120 Beginning Algebra or higher	3

WEB DESIGN CORE REQUIREMENTS — (30 credits)

ART 201 Three-Dimensional Design	3
CIS 023 Microsoft® FrontPage® Workshop	1
CIS 122 Microsoft® Access® Comprehensive	3
CIS 132 Graphic Illustration (Adobe® Illustrator®)	3
CIS 134 Graphic Imaging (Adobe® Photoshop®)	3
CIS 136 Integrated Design I (Adobe® InDesign®)	3
CIS 143 HTML	2
CIS 144 Web Page Design (Dreamweaver®)	3
CIS 243 Web Animation (Macromedia® Flash®)	3
CIS 244 Web Programming	3
CIS 246 Web Integration with Database	3

SUGGESTED COURSE SEQUENCE

First Semester

ART 201, CIS 023, CIS 101, CIS 122, CIS 132, CIS 143, CIS 243

Second Semester

CIS 134, CIS 232, CIS 246, ENG 131, MTH 120 or higher

Third Semester

CIS 144, CIS 244

TRANSFER PROGRAMS

ART

Visual artists create art to communicate ideas, thoughts or feelings. They use a variety of methods: painting, sculpting or illustration and an assortment of materials including watercolors, acrylics, pastels, pencils, pen and ink, plaster, clay and computers. Visual artists' works may be realistic, stylized or abstract and may depict objects, people, nature or events. Sample curricula for a few popular transfer programs are included.

Admittance to a four-year college art program is highly competitive. Check with the transfer institution to determine the admittance process. During the first semester of your freshman year, check whether ART classes will transfer to meet requirements of the transfer institution.

Some transfer institutions grant studio art credit ONLY upon approval of a portfolio.

SUGGESTED COURSE SEQUENCE FOR ART

First Year, Fall Semester

ART 101, ART 111, ENG 131, MTH 131 or 140*, MACRAO Science course

First Year, Winter Semester

ART 112, ART 201, ENG 132, MACRAO Science course, MACRAO Social Science course

Second Year, Fall Semester

ART 103, ART 152, MACRAO Social Science course, Non-art MACRAO Humanities course

Second Year, Winter Semester

ART 203, MACRAO Social Science course, Electives

**Check mathematics requirements at intended transfer institution.*

DANCE

Dancers use their bodies in a variety of ways to respond to social and political realities. Creative movement, awareness of the body in space and time and performance experience are all excellent training for careers that demand poise and confidence. Check the transfer status of DAN classes with the university of your choice.

ENGLISH

Students who major or minor in English can find work in a variety of fields. Careers such as writing, teaching, library science, editing and publishing are directly related to specific studies in English language and literature. English is an excellent pre-law major. Many transfer institutions require that English majors have proficiency in a foreign language. The level of this proficiency varies - some require third-semester proficiency but more require fourth-semester proficiency.

SUGGESTED COURSE SEQUENCE FOR ENGLISH**First Year, Fall Semester**

ENG 131, MTH 131 or MTH 140*, Foreign Language 131, MACRAO Science course

First Year, Winter Semester

ENG 132, ENG 246, Foreign Language 132, MACRAO Science course

First Year, Spring Semester

MACRAO Social Science courses

Second Year, Fall Semester

ENG 247, ENG 255, ENG 261, Foreign Language 231

Second Year, Winter Semester

ENG 252, ENG 256, Foreign Language 232, MACRAO Social Science course, SPH 231

**Check mathematics requirements of transfer institution.*

HISTORY

History examines the lives of people and the consequences of ideas. Study of the past reveals valuable achievements as well as dreadful mistakes, and in so doing helps us meet the unexpected challenges of our own day.

SUGGESTED COURSE SEQUENCE FOR HISTORY**First Year, Fall Semester**

ENG 131, HIS 131, MTH 131 or MTH 140*, MACRAO Science course

First Year, Winter Semester

ENG 132, GEO 132, HIS 132, PHL 231, MACRAO Science course

Second Year, Fall Semester

ECN 231, HIS 231, PLS 141, Electives

Second Year, Winter Semester

ECN 232, HIS 232, Electives

**Check mathematics requirements of transfer institution.*

MUSIC

Many occupations include music, the most obvious being a vocalist or musical entertainer. Others include songwriting, music teacher, music therapist, conductor, music critic or music librarian. Some music majors work on the business side of the industry and become agents or store owners.

Music students have access to the College's incredible performing arts complex, the George E. Potter Center. Students who qualify can study and perform with the Broadway Revue and the Community Concert Band. These provide valuable concert experiences as well as academic credit.

Admittance to a four-year college music program is highly competitive and requires an audition. It is recommended that students contact their intended transfer institution during their first year to schedule an audition time.

SUGGESTED COURSE SEQUENCE FOR MUSIC**First Year, Fall Semester**

ENG 131, MTH 131 or MTH 140*, MACRAO Science course, MUS 103***, MUS 151**, MUS 167****, MUS 129, MUS 190

First Year, Winter Semester

ENG 132, MACRAO Science course, MUS 152**, MUS 168****, MUS 129, or MUS 190

Second Year, Fall Semester

MUS 130, MACRAO Social Science courses, Non-music MACRAO Humanities course, MUS 129, or MUS 190

Second Year, Winter Semester

MUS 131, MACRAO Social Science course(s), MUS 129, or, MUS 190

**Check mathematics requirements of transfer institution.*

***May need to take test at transfer institution to receive credit.*

****Semesters required depend on amount of prior piano study.*

*****Vocalists can take MUS 123/124 instead.*

THEATRE

Theatre students have access to the College's incredible performing arts complex, the George E. Potter Center and learn from professionally experienced faculty. Program emphasizes practical experience with requirements in studio and classroom work.

Career positions can include working as an actor, director, stage manager, set designer or in other theatre-related occupations.

SUGGESTED COURSE SEQUENCE FOR THEATRE**First Year, Fall Semester**

ENG 131, MTH 131 or MTH 140*, THR 145, MACRAO
Science course

First Year, Winter Semester

ENG 132, PSY 140, THR 146, MACRAO Science course

Second Year, Fall Semester

THR 116, MACRAO Social Science and Humanities courses

Second Year, Winter Semester

THR 260, MACRAO Social Science and Humanities
courses, electives

**Check mathematics requirements of transfer institution.*