

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

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ARTS AND 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 page 37 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



STUDIO ART – CERTIFICATE (STAR.CERT)

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, graphic 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)

Take the following:

- COM 231 Communication Fundamentals
- ENG 131 Writing Experience I
- MTH 120 Beginning Algebra or higher

STUDIO ART CORE REQUIREMENTS – (15 credits)

Take the following:

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

ELECTIVES – (6 credits)

Choose 6 credits from the following:

- ART 111 Art History: Prehistoric to 1400
- ART 122 Ceramics II
- ART 152 Painting I: Design & Color
- ART 205 Drawing II: Figure & Composition
- CIS 134 Graphic Imaging
- ENG 210 Introduction to Film

TECHNICAL THEATRE – CERTIFICATE (TETH.CERT)

This 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 – (12 credits)

Take the following:

COM 231 Communication Fundamentals
ENG 131 Writing Experience I
MTH 120 Beginning Algebra or higher
THR 116 Introduction to Theatre

TECHNICAL THEATRE CORE REQUIREMENTS – (18 credits)

Take the following:

THR 102 Theatre Activities
THR 131 Stagecraft I
THR 134 Stagecraft II
THR 145 Fundamentals of Acting I
THR 201 Backstage Certification

Choose two courses from the following:

THR 151 Make-Up for Stage and Video
THR 241 Lighting for Stage and Video
THR 242 Sound for Stage and Video

THEATRE PERFORMANCE – CERTIFICATE (THPR.CERT)

This program prepares students gives students foundational skills and prepares them through coursework, hands-on experience and in class and workshop performances for work in the performance of live theatre and its commercial applications, as well as equips them for advanced degree programs. The certificate includes a wide range of topics designed to encourage individual creativity while emphasizing the practical knowledge required for success.

Typical job opportunities include, but are not limited to: actors, directors, voice-over artists, drama teachers, singers, dancers, make-up assistants and playwrights in live theatre and commercial venues. This certificate also consists of the foundational courses needed for an associate degree.

Minimum credits:	32
Minimum cumulative GPA:	2.0
Minimum grade in all courses:	2.0
Minimum JCC credits:	12
MACRAO Agreement:	No

GENERAL EDUCATION REQUIREMENTS – (12 credits)

Take the following:

COM 231 Communication Fundamentals
ENG 131 Writing Experience I
MTH 120 Beginning Algebra or higher
THR 116 Introduction to Theatre

THEATRE PERFORMANCE CORE REQUIREMENTS – (20 credits)

Take the following:

THR 131 Stagecraft I
THR 145 Fundamentals of Acting I
THR 146 Fundamentals of Acting II
THR 151 Make-Up for Stage and Video
THR 216 Voice for the Actor
THR 260 Introduction to Directing

VIDEO PRODUCTION – CERTIFICATE (VIPR.CERT)

This 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 operator, 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)

Take the following:

COM 231 Communication Fundamentals
ENG 131 Writing Experience I
MTH 120 Beginning Algebra or higher

VIDEO PRODUCTION CORE REQUIREMENTS – (21 credits)

Take the following:

ENG 210 Introduction to Film
THR 131 Stagecraft I
VID 101 Video Production I
VID 120 Video Production II

Take one course from the following:

ART 103 Drawing I: Foundations
CIS 134 Graphic Imaging (Adobe® Photoshop®)

Take two courses from the following:

THR 151 Make-Up for the Stage and Video
THR 241 Lighting for Stage and Video
THR 242 Sound for Stage and Video

VISUAL COMMUNICATION/GRAPHIC DESIGN – ASSOCIATE IN APPLIED SCIENCE (VCGD.AAS)

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 – (23 credits)

ADO 1: Write clearly, concisely and intelligibly (6 credits)

Take the following:

- ENG 131 Writing Experience I
- ENG 232 Technical & Business Writing

ADO 2: Speak clearly, concisely and intelligibly (3 credits)

Choose one of the following:

- COM 231 Communication Fundamentals
- COM 240 Interpersonal Communication

ADO 3: Demonstrate computational skills and mathematical reasoning (3-5 credits)

- MTH 120 Beginning Algebra or higher

ADO 4: Demonstrate scientific reasoning (4-5 credits)

Choose one of the following:

- BIO 110 Introductory Biology
- BIO 131 General Biology
- BIO 132 Human Biology
- BIO 155 Human Anatomy & Physiology
- BIO 220 Microbiology
- BIO 253 Human Anatomy and Physiology I
- CEM 131 Fundamentals of Chemistry
- CEM 141 General Chemistry I
- GEL 160 Introduction to Geology
- NSC 131 Contemporary Science
- PHY 131 Conceptual Physics
- PHY 151 Astronomy
- PHY 231 College Physics I
- PHY 251 Modern University Physics I

ADO 5: Understand human behavior and social systems, the principles which govern them, and their implications for the present and future (3-4 credits)

Choose one of the following:

- ECN 231 Macroeconomics
- ECN 232 Microeconomics
- HIS 131 Western Civilization to 1555
- HIS 132 Western Civilization 1555 to Present
- HIS 231 Development of the US through the Civil War
- HIS 232 Development of the US from the Civil War
- HIS 235 20th Century History
- PLS 141 American National Government
- PSY 140 Introduction to Psychology
- SOC 231 Principles of Sociology

ADO 6: Understand aesthetic experience and artistic creativity (3 credits)

Choose one of the following:

- ART 111 Art History: Prehistoric to 1400
- ART 112 Art History: Renaissance to Present
- ENG 210 Introduction to Film
- ENG 246 Short Story & Novel
- ENG 247 Poetry & Drama
- ENG 252 Shakespeare
- ENG 254 Children's Literature
- ENG 255 American Literature - 19th Century
- ENG 256 American Literature - 20th Century
- HUM 131 Cultural Connections
- MUS 131 Understanding Music
- THR 116 Introduction to Theatre

ADO 7: Think critically

Program courses meet this requirement

ADO 8: Make responsible decisions in personal and professional contexts (1-3 credits)

Choose one of the following:

- HPF 160 Wellness
- HPF 186 Weight Training and Wellness
- HPF 277 Stress Management
- HPF 283 Managing Stress and Holistic Health
- PHL 236 Ethics

ADO 9: Work productively with others, recognizing individual contributions to group success

Program courses meet this requirement

ADO 10: Understand and respect the diversity and interdependence of the world's peoples and cultures
Program courses meet this requirement

Graphic Design Related Requirements – (12 credits)

Take the following:

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

Choose 9 credits from the following:

- ART 137 Digital Photography
- BUA 120 Human Relations in Business
- BUA 220 Principles of Management
- BUA 231 Advertising, Promotion & Public Relations
- CIS 137 Digital Photography

Graphic Design Core Requirements – (28 credits)

Take the following:

- CIS 101 Introduction to Computer Systems
- CIS 128 Typography & Layout
- CIS 132 Graphic Illustration
- CIS 134 Graphic Imaging
- CIS 136 Integrated Design I
- CIS 230 Practicum in Printing
- CIS 232 Integrated Design II
- CIS 234 Graphic Technology Applications
- CIS 245 Internship/Externship

VISUAL COMMUNICATION/GRAPHIC DESIGN – CERTIFICATE (VCGD.CERT)

Minimum credits:	37
Minimum cumulative GPA:	2.0
Minimum grade in all courses:	2.0
Minimum JCC credits:	12
MACRAO Agreement:	No

GENERAL EDUCATION REQUIREMENTS – (6 credits)**Take the following:**

ENG 131	Writing Experience I
MTH 120	Beginning Algebra or higher

GRAPHIC DESIGN CORE REQUIREMENTS – (28 credits)**Take the following:**

CIS 101	Introduction to Computer Systems
CIS 128	Typography & Layout
CIS 132	Graphic Illustration (Adobe® Illustrator®)
CIS 134	Graphic Imaging (Adobe® Photoshop®)
CIS 136	Integrated Design I (Adobe® InDesign®)
CIS 230	Practicum in Printing
CIS 232	Integrated Design II (Adobe® InDesign®)
CIS 234	Graphic Technology Applications
CIS 245	Internship/Externship

VISUAL COMM/GRAPHIC RELATED REQUIREMENTS – (3 credits)**And choose one of the following courses:**

ART 101	Two-Dimensional Design
ART 103	Drawing
ART 137	Digital Photography
ART 152	Painting & Composition
CIS 137	Digital Photography

VISUAL COMMUNICATION/GRAPHIC DESIGN – CONCENTRATION (VCGD.CON)

Minimum credits:	19
Minimum cumulative GPA:	2.0
Minimum grade in all courses:	2.0
Minimum JCC credits:	12
MACRAO Agreement:	No

REQUIRED COURSES – (20 credits)**Take the following:**

CIS 101	Introduction to Computer Systems
CIS 132	Graphic Illustration (Adobe® Illustrator®)
CIS 134	Graphic Imaging (Adobe® Photoshop®)
CIS 136	Integrated Design I (Adobe® InDesign®)
CIS 230	Practicum in Printing
CIS 232	Integrated Design II (Adobe® InDesign®)

MULTIMEDIA WEB DESIGN – ASSOCIATE IN APPLIED SCIENCE (MUWD.AAS)

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 – (23 credits)**ADO 1: Write clearly, concisely and intelligibly (6 credits)****Take the following:**

ENG 131	Writing Experience I
ENG 232	Technical & Business Writing

ADO 2: Speak clearly, concisely and intelligibly (3 credits)**Choose one of the following:**

COM 231	Communication Fundamentals
COM 240	Interpersonal Communication

ADO 3: Demonstrate computational skills and mathematical reasoning (3-5 credits)**Take the following:**

MTH 120	Beginning Algebra or higher
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ADO 4: Demonstrate scientific reasoning (4-5 credits)**Choose one of the following:**

BIO 110	Introductory Biology
BIO 131	General Biology
BIO 132	Human Biology
BIO 155	Anatomy & Physiology
BIO 220	Microbiology
BIO 253	Human Anatomy and Physiology I
CEM 131	Fundamentals of Chemistry
CEM 141	General Chemistry I
GEL 160	Introduction to Geology
NSC 131	Contemporary Science
PHY 131	Conceptual Physics
PHY 151	Astronomy
PHY 231	College Physics I
PHY 251	Modern University Physics I

ADO 5: Understand human behavior and social systems, the principles which govern them, and their implications for the present and future (3-4 credits)**Choose one of the following:**

ECN 231	Macroeconomics
ECN 232	Microeconomics
HIS 131	Western Civilization to 1555
HIS 132	Western Civilization 1555 to Present
HIS 231	Development of the US through the Civil War
HIS 232	Development of the US from the Civil War
HIS 235	20th Century History
PLS 141	American National Government
PSY 140	Introduction to Psychology
SOC 231	Principles of Sociology

ADO 6: Understand aesthetic experience and artistic creativity (3 credits)**Choose one of the following:**

ART 111	Art History: Prehistoric to 1400
ART 112	Art History: Renaissance to Present
ENG 210	Introduction to Film
ENG 246	Short Story & Novel
ENG 247	Poetry & Drama
ENG 252	Shakespeare
ENG 254	Children's Literature
ENG 255	American Literature - 19th Century
ENG 256	American Literature - 20th Century
HUM 131	Cultural Connections

MUS 131 Understanding Music
THR 116 Introduction to Theatre

ADO 7: Think critically

Program courses meet this requirement

ADO 8: Make responsible decisions in personal and professional contexts (1-3 credits)

Choose one of the following:

HPF 160 Wellness
HPF 186 Weight Training and Wellness
HPF 277 Stress Management
HPF 283 Managing Stress and Holistic Health
PHL 236 Ethics

ADO 9: Work productively with others, recognizing individual contributions to group success

Program courses meet this requirement

ADO 10: Understand and respect the diversity and interdependence of the world's peoples and cultures

Program courses meet this requirement

MULTIMEDIA WEB DESIGN RELATED REQUIREMENTS – (9 credits)

Take the following:

BUA 122 Successful Small Business
BUA 130 Customer Service
BUA 230 Principles of Marketing

MULTIMEDIA WEB DESIGN CORE – (30 credits)

Take the following:

CIS 045 Web Page Design I (Dreamweaver®)
CIS 101 Introduction to Computer Systems
CIS 122 Microsoft® Access® Comprehensive
CIS 132 Graphic Illustration (Adobe® Illustrator®)
CIS 134 Graphic Imaging (Adobe® Photoshop®)
CIS 136 Integrated Design I (Adobe® InDesign®)
CIS 143 HTML
CIS 145 Web Page Design II (Dreamweaver®)
CIS 243 Web Animation (Macromedia® Flash®)
CIS 244 Web Programming
CIS 246 Web Integration with Database

MULTIMEDIA WEB DESIGN – CERTIFICATE (MUWD.CERT)

Minimum credits:36
Minimum cumulative GPA:2.0
Minimum grade in all courses:2.0
Minimum JCC credits:12
MACRAO Agreement:No

GENERAL EDUCATION REQUIREMENTS – (6 credits)

Take the following:

ENG 131 Writing Experience I
MTH 120 Beginning Algebra or higher

WEB DESIGN CORE REQUIREMENTS – (30 credits)

Take the following:

CIS 045 Web Page Design I (Dreamweaver®)
CIS 101 Introduction to Computer Systems
CIS 122 Microsoft® Access® Comprehensive
CIS 132 Graphic Illustration (Adobe® Illustrator®)
CIS 134 Graphic Imaging (Adobe® Photoshop®)
CIS 136 Integrated Design I (Adobe® InDesign®)
CIS 143 HTML
CIS 145 Web Page Design II (Dreamweaver®)
CIS 243 Web Animation (Macromedia® Flash®)
CIS 244 Web Programming
CIS 246 Web Integration with Database

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 of transfer institution.*

DANCE

Dancers use their bodies in a variety of ways to respond to social and political realities. Creative movement, awareness of the bodies 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, COM 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.*