

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 33 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 (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, 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)

#### Take the following:

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

### 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 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 - (12 credits)**

**Take the following:**

- ENG 131 Writing Experience
- MTH 120 Beginning Algebra or higher
- SPH 231 Communication Fundamentals
- 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 & Video
- THR 242 Sound for Stage & Video

**VIDEO PRODUCTION – CERTIFICATE (VIPR.CERT)**

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 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:**

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

**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 & Video
- THR 241 Lighting for Stage & Video
- THR 242 Sound for Stage & 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
- ENG 232 Technical Business Writing

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

**Choose one of the following:**

- SPH 231 Communication Fundamentals
- SPH 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 to Biology
- BIO 131 General Biology
- BIO 132 Human Biology
- BIO 155 Human Anatomy & Physiology
- BIO 220 Microbiology
- BIO 253 Human Anatomy & 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 & Novels  
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 277 Stress Management  
HPF 283 Managing Stress & 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 & Seminar

## 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  
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

**ADDITIONAL REQUIREMENTS - (3 credits)**

**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

## 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
- ENG 232 Technical & Business Writing

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

##### Choose one of the following:

- SPH 231 Communication Fundamentals
- SPH 240 Interpersonal Communication

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

##### Take the following:

- MTH 120 Beginning Algebra or higher

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

##### Choose one of the following:

- BIO 110 Introduction to Biology
- BIO 131 General Biology
- BIO 132 Human Biology
- BIO 155 Anatomy & Physiology
- BIO 220 Microbiology
- BIO 253 Human Anatomy & 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 277 Stress Management
- HPF 283 Managing Stress & 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  
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 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 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, 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.*