

DISTRICT PROGRAMS

EARLY COLLEGE

THESE COURSES ARE TAUGHT AT GATEWAY KCTCS FLORENCE CAMPUS AND ARE SUBJECT TO CHANGE. STUDENTS MUST APPLY AND BE ACCEPTED TO GATEWAY, NKU, AND THOMAS MORE COLLEGE. TUITION AND FEES APPLY.

GATEWAY COURSES

ENG 101 WRITING I

Course # 230404-GTWEC

Credit: 1

Grade Level: 11-12

Focuses on academic writing. Provides instruction in drafting and revising essays that express ideas in Standard English, including reading critically, thinking logically, responding to texts, addressing specific audiences, researching and documenting sources. Includes review of grammar, mechanics and usage, Notes: (a) credit not available by special examination; (b) English 101 and 102 may not be taken concurrently; (c) AP credit in the English Language and Composition category for ENG 101 awarded as indicated by AP scoring chart in current KCTCS catalog. Pre-requisite: Appropriate writing placement score or ENC 091. Lecture: 3 credits (45 contact hours).

Components: Lecture Attributes: WC - Written Communication, Course Also Offered in Modules

ENG 102 WRITING II

Course # 230599-GTWEC

Credit: 1

Grade Level: 11-12

Emphasizes argumentative writing. Provides further instruction in drafting and systematically revising essays that express ideas in Standard English. Includes continued instruction and practice in reading critically, thinking logically, responding to texts, addressing specific audiences, and researching and documenting credible academic sources. NOTE: Credit is not available by special examination. Pre-requisite: ENG 101. Lecture: 3 credits (45 contact hours)

Components: Lecture Attributes: WC - Written Communication, Course Also Offered in Modules

BIO 120 HUMAN ECOLOGY

Course # 302614-GTWEC

Credit: 1

Grade Level: 11-12

Interrelationships among humans, other organisms and the environment including principles of energy and matter, resource use, biogeochemical cycling, trophic structures, sustainability and environmental impacts by humans.

Lecture: 3 credits (45 contact hours). Components: Lecture Attributes: SN – Science

CHE 140 INTRODUCTION TO GENERAL CHEMISTRY

Course # 304526-GTWEC

Credit: 1

Grade Level: 11-12

Introduces topics in general chemistry, including properties of matter, stoichiometry, gases, atomic structure, bonding, acids and bases, oxidation and reduction, and nuclear chemistry. Intended for students interested in a one-semester course in general chemistry and recommended for students seeking careers in allied health fields.

Prerequisite: [(Intermediate Algebra) or (College Algebra or higher) with a grade of "C" or better] OR (College Level math ACT score).

Lecture: 3.0 credits (45 contact hours). Components: Lecture Attributes: SN – Science

CHE 145 INTRODUCTION TO GENERAL CHEMISTRY

Course # 304526-GTWLEC

Credit: 1

Grade Level: 11-12

Reinforces concepts covered in CHE 140 and introduces basic laboratory techniques, methods, and instrumentation through selected experiments dealing with chemical and physical properties, qualitative analysis, and quantitative analysis.

Prerequisite or corequisite: CHE 140. Laboratory: 1 credit (45 contact hours, 45:1 ratio).

Components: Laboratory Attributes: SL - Science Laboratory, SN – Science

COM 181 BASIC PUBLIC SPEAKING

Course # 231024-GTWEC

Credit: 1

Grade Level: 11-12

Gives platform experience in the fundamentals of effective speaking. Prerequisite: Current placement scores for college level reading established by KCTCS, or completion of (DRE 030 or RDG 030 or CMS 185) AND (current placement scores for college level writing established by KCTCS or completion of ENC 091) OR consent of instructor.

Lecture: 3 credits (45 contact hours).

Components: Lecture

MAT 150 COLLEGE ALGEBRA

Course # 002250-GTWEC

Credit: 1

Grade Level: 11-12

Includes selected topics in algebra and analytic geometry. Develops manipulative skills and concepts required for further study in mathematics. Includes linear, quadratic, polynomial, rational, exponential, logarithmic and piecewise functions; systems of equations; and an introduction to analytic geometry. (Students may not receive credit for both MAT150 and any other College Algebra or Precalculus course. Credit not available on the basis of special exam.)

Lecture: 3 credits (45 contact hours).

Pre-requisites: 1. Math ACT score of 22 or above, 2. Math ACT score of 19 21 with concurrent MAT 100 workshop, 3. Successful completion of Intermediate Algebra, MAT 126, or equivalent, or 4. KCTCS placement exam recommendation.

Components: Lecture Course Equivalents: MA 109

Attributes: QR - Quantitative Reasoning, Course Also Offered in Modules

SOC 100 INTRODUCTION TO SOCIOLOGY

Course # 451121-GTWEC

Credit: 1

Grade Level: 11-12

Introduces concepts and methods of sociology including investigation of socialization, group processes, social inequality, social institutions, and social change.

Lecture: 3 credits (45 contact hours).

STA 220 STATISTICS

Course # 270602-GTWEC

Credit: 1

Grade Level: 11-12

Examines statistical description of sample data including frequency distributions, measures of central tendency, and measures of dispersion. Includes theoretical distributions, statistical estimation, and hypothesis testing. Introduces simple linear regression and correlation.

Prerequisite: MAT 150 or equivalent. Lecture: 3.0 credits (45 contact hours).

Components: Lecture Attributes: QR - Quantitative Reasoning, Course Also Offered in Modules

WGS 200 INTRODUCTION TO WOMEN AND GENDER STUDIES IN THE SOCIAL SCIENCES

Course # 451121-GTWEC

Credit: 1

Grade Level: 11-12

Introduces women's and gender studies from a social science perspective, using a cross-cultural and interdisciplinary approach. Emphasizes social science explanations for sex-typed behavior, social perceptions of women and men, and the roles of women in social and cultural life.

Lecture: 3 credits (45 contact hours).

THOMAS MORE COURSES

HIS 101 WORLD CIVILIZATIONS I: GLOBAL PERSPECTIVES

(2018/2019)

Course # 002340-TMCEC

Credit: 1

Grade Level: 11-12

A two semester multicultural survey investigating the major civilizations of the world from ancient to modern times, divided at 1500. These courses are designed to serve as the integrating elements of the core curriculum.

HIS 102 WORLD CIVILIZATIONS II: GLOBAL PERSPECTIVES

(2018/2019)

Course # 002340-TMCEC

Credit: 1

Grade Level: 11-12

A two semester multicultural survey investigating the major civilizations of the world from ancient to modern times, divided at 1500. These courses are designed to serve as the integrating elements of the core curriculum.

MUS 155 MUSIC APPRECIATION

Course # 500912-TMCEC

Credit: 1

Grade Level: 11-12

Survey of the development of music in Western civilization, with emphasis on the interdependence of classical music with art, literature, politics, religion, socio-economic changes, and world influences. Emphasis will be placed on developing a working knowledge of musical vocabulary and rhetoric, listening skills and the ability to identify differing musical styles, as well as familiarity with monuments of music and major composers.

NKU COURSES

ANT 100 INTRODUCTION TO CULTURAL ANTHROPOLOGY

Course # 459803- NKU

Credit: 1

Grade Level: 11-12

Definition and nature of culture, its content and structure (e.g., kinship, politics, and religion); basic field methods; emphasis on non- Western cultures.

BLS 100 INTRODUCTION TO BLACK STUDIES

Course # 459877- NKU

Credit: 1

Grade Level: 11-12

This course is designed to engage students in the study of the seven core areas of Black studies: Black History, Black Sociology, Black Religion, Black Economics, Black Politics, Black Psychology, and the humanities (Black Literature, Art, and Music).
GENERAL EDUCATION: Cultural Pluralism.

HIS 102 HISTORY OF THE UNITED STATES THROUGH 1877

Course # 450814- NKUEC

Credit: 1

Grade Level: 11-12

The nation's development from the beginning through the Civil War and Reconstruction. Designed to meet demands for a general understanding of U.S. history. General education credit: Culture and Creativity

HIS 103 HISTORY OF THE UNITED STATES SINCE 1877

Course # 450812- NKUEC

Credit: 1

Grade Level: 11-12

Exploration of the nation's development since 1877. Designed to meet demands for a general understanding of U.S. history. General education credit: Culture and Creativity

PSY 100 INTRODUCTION TO PSYCHOLOGY

Course # 459902- NKU

Credit: 1

Grade Level: 11-12

Systematic and scientific study of behavior from biological, behavioral, and cognitive perspectives; methods, history, biopsychology, perception, learning, development, cognition, personality, mental disorders, therapy, and social psychology.

DESIGN SCHOOL

INTERACTIVE MEDIA ARTS CAREER PATHWAY

COMPLETING THIS PATHWAY WILL ALLOW STUDENTS TO TAKE INDUSTRY CERTIFICATION TEST(S) AND POSSIBLY EARN THE DISTINCTION OF "CAREER READY."

INTRODUCTION TO MEDIA ARTS

Course # 480901

Credit: 1

Grade Level: 11-12

An introduction to and survey of the creative and conceptual aspects of designing media arts experiences and products, including techniques, genres and styles from various and combined media and forms, including moving image, sound, interactive, spatial and/or interactive design. Typical course topics include: aesthetic meaning, appreciation, and analysis; composing, capturing, processing and programming of media arts products, experiences and communications; their transmission, distribution and marketing; as well as contextual, ethical, cultural, and historical aspects and considerations.

INTERACTIVE DESIGN

Course # 480902

Credit: 1

Grade Level: 11-12

The creative and conceptual aspects of designing and producing interactive media arts experiences, products and services, including reactive (sensory-based [touch, proximity, movement, etc.] devices) and interactive technologies, 3D video game animation, interface design, mobile device applications, web multimedia, social media based, augmented, and/or virtual reality. Typical course topics include: aesthetic meaning, appreciation and analysis; construction, development, processing, modeling, simulation and programming of interactive experiences; their transmission, distribution and marketing, as well as contextual, cultural and historical aspects and considerations.

MOVING IMAGE ANIMATION

Course # 480903

Credit: 1

Grade Level: 11-12

The creative and conceptual aspects of designing and producing animated images for the variety of storytelling and multimedia presentations including: dramatic narratives, artistic and experimental presentations and/or installations, ambient, interactive, immersive and performance media, etc. Typical course topics include: aesthetic meaning, appreciation and analysis of animation; all processes of development including: composition and rendering, animation physics and expressions; techniques, forms and technologies; modeling and programming; pre-production planning and organization; production and post-production methods, tools and processes; animation presentation, transmission, distribution and marketing; as well as contextual, cultural, and historical aspects and considerations.

VIRTUAL DESIGN

Course # 480904

Credit: 1

Grade Level: 11-12

The creative and conceptual aspects of designing and producing simulative, virtual, 3D media arts experiences, products and services for storytelling and multimedia presentations including: dramatic narratives, artistic and experimental presentations and/or installations, ambient, interactive, immersive and performance media, etc. Typical course topics include: aesthetic meaning, appreciation and analysis of animation; all processes of development including: composition and rendering, animation physics and expressions; techniques, forms and technologies; modeling and programming; pre-production planning and organization; production and post-production methods, tools and processes; animation presentation, transmission, distribution and marketing; as well as contextual, cultural, and historical aspects and considerations.

MEDIA ARTS CO-OP

Course # 480950

Credit: 1

Grade Level: 11-12

MEDIA ARTS INTERNSHIP

Course # 480951

Credit: 1

Grade Level: 11-12

CINEMATOGRAPHY CAREER PATHWAY

COMPLETING THIS PATHWAY WILL ALLOW STUDENTS TO TAKE INDUSTRY CERTIFICATION TEST(S) AND POSSIBLY EARN THE DISTINCTION OF "CAREER READY."

INTRODUCTION TO MEDIA ARTS

Course # 480901

Credit: 1

Grade Level: 11-12

An introduction to and survey of the creative and conceptual aspects of designing media arts experiences and products, including techniques, genres and styles from various and combined media and forms, including moving image, sound, interactive, spatial and/or interactive design. Typical course topics include: aesthetic meaning, appreciation, and analysis; composing, capturing, processing and programming of media arts products, experiences and communications; their transmission, distribution and marketing; as well as contextual, ethical, cultural, and historical aspects and considerations.

VIDEO STUDIO FUNDAMENTALS

Course # 480910

Credit: 1

Grade Level: 11-12

This course will expose student to the materials, processes, and artistic techniques involved in creating video productions. Students learn about the operation of cameras, lighting techniques, camera angles, depth of field, composition, storyboarding, sound capture and editing techniques. Course topics may include production values and various styles of video production (e.g., documentary, storytelling, news magazines, animation, etc.) Students may be exposed to digital and traditional film. As students advance they are encouraged to develop their own artistic styles. Major filmmakers, cinematographers, video artists and their work may be studied.

STUDIO DIRECTING AND PERFORMANCE

Course # 480911

Credit: 1

Grade Level: 11-12

This course explores the role of the director within the studio system. Students develop knowledge and skills in studio multi-camera and field television production. Students also develop performance skills for broadcasting including interpretation of copy, news casting, and ad lib announcing. The course covers techniques of narrative and non-fiction writing and scripting, the analysis and writing of radio, television, and video materials, including storytelling and screenwriting.

ADVANCED STUDIO PRODUCTION (MOVING IMAGE)

Course # 480912

Credit: 1

Grade Level: 11-12

Students will explore the creative and conceptual aspects of designing and producing moving images for the variety of cinematic, film/video and multimedia presentations including: fictional dramas, documentaries, music videos, artistic and experimental presentations and/or installations, interactive, immersive and performance media, etc. Typical course topics include: aesthetic meaning, appreciation and analysis of moving imagery; all processes of development including: pre-production planning and organization, production and post-production methods, tools and processes; moving image presentation, transmission, distribution and marketing; as well as contextual, cultural, and historical aspects and considerations.

HOMEBUILDERS PROGRAM

INTRODUCTION TO BUILDING AND APARTMENT MAINTENANCE

Course # 460241

Credit: 1

Grade Level: 11-12

This course covers required safety practices in the shop and workplace; identification and use of hand tools used in the construction trades; identification of construction materials; interpretation of blueprints and/or drawings; and exposure to various mechanical and structural systems in a residential structure. Content: Building and Apartment Maintenance Population: General

RESIDENTIAL MAINTENANCE CARPENTRY

Course # 460220

Credit: 1

Grade Level: 11-12

This course covers the basic aspects of framing, roofing, window, door, and stair maintenance. The student will receive training in the proper use of ladders and in the handling and storage of building materials. Content: Residential/Commercial Carpentry Population: General

RESIDENTIAL MAINTENANCE WIRING

Course # 460333

Credit: 1

Grade Level: 11-12

This course covers the basic aspects of electric theory, wire and cables, fixtures and devices, and troubleshooting and maintenance wiring. Content: Electrical Technology Population: General

RESIDENTIAL MAINTENANCE PLUMBING

Course # 460516

Credit: 1

Grade Level: 11-12

This course covers the basic aspects of clearing blocked drains, repairing leaks, repair and replacement of residential plumbing fixtures, and working with copper, plastic, and steel pipes. Content: Plumbing Technology Population: General

LOGISTICS PROGRAM

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LOM 100 INTRODUCTION TO LOGISTICS MANAGEMENT

Course # 002610-GTW **Credit: 1** **Grade Level: 11-12**
Presents an overview of general logistics concepts and organizational issues; inventory management and customer service in logistics; and transportation and third party logistics.
Lecture: 3.0 credits (45 contact hours). Components: Lecture Attributes: Technical

LOM 102 SUPPLY CHAIN MANAGEMENT

Course # 002611-GTW **Credit: 1** **Grade Level: 11-12**
Presents an overview of general logistics concepts and organizational issues; inventory management and customer service in logistics; and transportation and third party logistics.
Lecture: 3.0 credits (45 contact hours). Components: Lecture Attributes: Technical

LOM 103 APPLIED SUPPLY CHAIN MANAGEMENT

Course # 002610-GTW **Credit: 1** **Grade Level: 11-12**
Provides an understanding of the importance of individual components (supplies, manufacturers, distributors, and customers) in the operation of a supply chain.
Prerequisite: LOM 102.
Lecture: 3.0 credits (45 contact hours). Components: Lecture Attributes: Technical

FIREFIGHTER/EMT PROGRAM

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YEAR 1 FIRST SEMESTER

FRS 101 INTRODUCTION TO FIRE SAFETY

Course # 461033-GTW **Credit: 1** **Grade Level: 11-12**
This course includes fire department organization, fire behavior, firefighter safety, personal protective equipment, portable fire extinguishers, fire hose, appliance and streams.
Lecture: 3 credits (45 contact hours) Components: Lecture Attributes: Course Also Offered in Modules, Technical

FRS 102 FIREFIGHTERS BASIC SKILLS 1

Course # 461032-GTW **Credit: 1** **Grade Level: 11-12**
Includes ropes, ladders, aircraft rescue, forcible entry, first aid, blood borne pathogens, emergency disaster planning, and CPR.
Pre-requisite: FRS 101 or Consent of Instructor.
Lecture: 3 credits (45 contact hours). Components: Lecture Attributes: Course Also Offered in Modules, Technical

YEAR 1 SECOND SEMESTER

FRS 103 FIREFIGHTERS BASIC SKILLS II

Course # 461035-GTW **Credit: 1** **Grade Level: 11-12**
Includes building construction, wildland fire behavior, fire control, and ventilation.
Pre-requisite: FRS 102 or Consent of Instructor. Lecture: 3 credits (45 contact hours).
Components: Lecture Attributes: Course Also Offered in Modules, Technical

FRS 104 FIREFIGHTERS INTERMEDIATE SKILLS 1

Course # 461036-GTW

Credit: 1

Grade Level: 11-12

Includes water supply, foam fire streams, fire alarms and communications, hazardous materials awareness, hazardous materials operations, sprinklers, and salvage and overhaul.

Pre-requisite: FRS 103 or Consent of Instructor. Lecture: 3 credits (45 contact hours).

Components: Lecture Attributes: Course Also Offered in Modules, Technical

YEAR 2 FIRST SEMESTER

FRS 105 FIREFIGHTERS INTERMEDIATE SKILLS II

Course # 461038-GTW

Credit: 1

Grade Level: 11-12

Includes fire department organization, fire behavior, personal protective equipment, fire hose, appliances and streams, ropes, forcible entry.

Pre-requisite: FRS 103 or Consent of Instructor.

Lecture: 3 credits (45 contact hours). Components: Lecture Attributes: Course Also Offered in Modules, Technical

FRS 201 FIREFIGHTERS ADVANCED SKILLS I

Course # 461038-GTW

Credit: 1

Grade Level: 11-12

Includes firefighter safety, rescue, ventilation ladders, fire control, and emergency disaster planning. Pre-requisite: FRS 103 or Consent of Instructor.

Lecture: 3 credits (45 contact hours). Components: Lecture Attributes: Course Also Offered in Modules, Technical

YEAR 2 SECOND SEMESTER

EMS 105 EMERGENCY MEDICAL TECHNICIAN (EMT)

Course # 461022-GTW

Credit: 1

Grade Level: 11-12

Provides the first level of training in the career structure of Emergency Medical Services. Integrates didactic course material and the lab component necessary for the delivery of entry level emergency medical care to individuals who are experiencing a disruption in normal body functions due to illness and/or injury and require intervention to prevent morbidity and mortality. Prepares the student to sit for the National Registry EMT examination that is required for Kentucky certification as an EMT.

Focuses on basic anatomy and physiology, scene and patient assessment, airway and ventilation, cardiovascular and body systems support, motion limiting devices, wound and fracture management, administration of basic patient medications, extrication, transportation, and patient monitoring as well as medico-legal aspects and ambulance operations. Includes a minimum twenty-four (24) hour clinical observation in the emergency department and/or on a state licensed ambulance service. Pre-requisite: CPR 100 Cardiopulmonary Resuscitation or Current CPR completion card; card must be at the basic life support healthcare provider or professional rescuer level. Lecture/Lab: 6.0 credits (150 contact hours).

Components: Lecture Attributes: Technical

ADVANCED MANUFACTURING PROGRAM

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YEAR 1 FIRST SEMESTER

ELT 110 CIRCUITS I

Course # 460316-GTW and #460316-GTW for the lab

Credit: 1

Grade Level: 11-12

Introduces application of basic DC and AC circuits, including circuit analysis techniques with discussion of introductory magnetism and transformer principles. Emphasizes design, construction, and troubleshooting of simple DC and AC circuits in laboratory exercises.

Pre-requisite: (MAT 065 or equivalent placement level) or Consent of Instructor. Lecture: 3.0 credits (45 contact hours).

Laboratory: 2.0 credits (60 contact hours). Components: Laboratory, Lecture Attributes: Course Also Offered in Modules, Technical

CIT 105 INTRODUCTION TO COMPUTERS

Course # 002230-GTW

Credit: 1

Grade Level: 11-12

Provides an introduction to the computer and the convergence of technology as used in today's global environment. Introduces topics including computer hardware and software, file management, the Internet, e-mail, the social web, green computing, security and computer ethics. Presents basic use of application, programming, systems, and utility software. Basic keyboarding skills are strongly recommended. Prerequisite: RDG 20 or Consent of instructor. Lecture: 3.0 credits (45 contact hours).

Components: Lecture Attributes: Digital Literacy, Course Also Offered in Modules

YEAR 1 SECOND SEMESTER

MFG 125 FUNDAMENTALS OF MECHATRONICS A

8 WEEKS

Course # 212230-GTW125

Credit: 1

Grade Level: 11-12

Introduces the student to the basics of Mechatronic systems and the operation of electrical, mechanical, pneumatic/hydraulic, and Programmable Logic Control components in an advanced manufacturing system. Presents a detailed explanation of the relationships of voltage, current, resistance, power, the operation of mechanical, pneumatic/hydraulic components, and programming fundamentals in industrial systems. Includes an overview of the fundamentals of alternating and direct current, rotating machinery, digital devices, and programming. (Credit may not be earned for this course if the student has earned credit for MFG 135). Pre-requisite: ENGT110 and at least five other hours of approved technical electives (see Manufacturing Engineering Technology technical elective list) or consent of instructor. Lecture/Lab: 3 credit hours (60 contact hours).

Components: Lecture Attributes: Technical

MFG 130 FUNDAMENTALS OF MECHATRONICS B

8 WEEKS

Course # 210230-GTW130

Credit: 1

Grade Level: 11-12

Introduces the student to the basics of Mechatronic systems and the operation of electrical, mechanical, pneumatic/hydraulic, and Programmable Logic Control components in an advanced manufacturing system. Presents a detailed explanation of the relationships of voltage, current, resistance, power, the operation of mechanical, pneumatic/hydraulic components, and programming fundamentals in industrial systems. Includes an overview of the fundamentals of alternating and direct current, rotating machinery, digital devices, and programming. (Credit may not be earned for this course if the student has earned credit for MFG 135). Pre-requisite: ENGT110 and at least five other hours of approved technical electives (see Manufacturing Engineering Technology technical elective list) or consent of instructor. Lecture/Lab: 3 credit hours (60 contact hours).

Components: Lecture Attributes: Technical

BAS 160 INTRODUCTION TO BUSINESS

Course # 060110-GTW

Credit: 1

Grade Level: 11-12

Introduces business careers, terminology, and the interrelationships of business topics. Presents the complexities of business and the impact on communities and their economies. Lecture: 3.0 credits (45 contact hours).

Components: Lecture Attributes: Course Also Offered in Modules, Technical