

CCRC Analysis Sheet

Program/Subject Area:	Developmental Education Alignment Project
Courses:	A request for twenty-nine (29) courses to be archived, twenty-five (25) courses to be revised, and five (5) new courses was received.
Request:	Please refer to the tables below for a complete list of all new courses, archived courses and course revisions.
Request Submitted By:	College of The Albemarle and Pitt Community College on behalf of the NC Community College System
Coordinator Assigned:	Lisa Eads

Background:

In January 2023, the NC Association of Community College Presidents approved the proposal: NCCCS Developmental Education Redesign: Reimagining Student Success. This document included a set of guiding policy recommendations to guide the future of developmental education across the System. Since approval of the proposal, faculty teams across the System have collaborated to produce new developmental courses will allow for a flexible developmental education model that fits the diverse set of student demographics and institutions across the NC Community College System.

Rationale:

The requesting colleges are asking for the new courses, course revisions, and archive courses for the following reasons:

- 1- Enable local flexibility in implementing the approved developmental education framework.
- 2- Address the diverse needs of students across the system.
- 3- Introduce new courses aligned with the approved developmental education framework to increase student success.

Effective/End Term Requested:

- The requested effective term for the **new courses** is **Summer 2024**.
- The requested effective term for the **course revisions** is **Spring 2025**.
- The requested end term for **archived courses** is **Summer 2025**.

Approved New Courses		
Course #	Current Course Title	Action Description
ENG-025	College English Skills	<u>New:</u> Covers newly aligned course content produced in the Developmental Education Alignment Project <u>Rationale:</u> In response to evolving educational needs, new developmental education courses have been created to support diverse needs of student populations within the approved developmental education framework
ENG-045	English Skills Support	<u>New:</u> Covers newly aligned course content produced in the Developmental Education Alignment Project <u>Rationale:</u> In response to evolving educational needs, new developmental education courses have been created to support diverse needs of student populations within the approved developmental education framework
MAT-025	Concepts of Essential Math/Stat	<u>New:</u> Covers newly aligned course content produced in the Developmental Education Alignment Project <u>Rationale:</u> In response to evolving educational needs, new developmental education courses have been created to support diverse needs of student populations within the approved developmental education framework
MAT-035	Concepts of Algebra	<u>New:</u> Covers newly aligned course content produced in the Developmental Education Alignment Project <u>Rationale:</u> In response to evolving educational needs, new developmental education courses have been created to support diverse needs of student populations within the approved developmental education framework
MAT-045	Math Skills Support	<u>New:</u> Covers newly aligned course content produced in the Developmental Education Alignment Project <u>Rationale:</u> In response to evolving educational needs, new developmental education courses have been created to support diverse needs of student populations within the approved developmental education framework

Approved Revised Courses*		
Course #	Current Course Title	Action Description
BIO-090	Foundations of Biology	Revise: Remove state-level requisites Rationale: Allow colleges to use local requisites to implement approved Developmental Education Framework
BIO-092	Basics of Cell Biology	Revise: Remove state-level requisites Rationale: Allow colleges to use local requisites to implement approved Developmental Education Framework
BIO-094	Concepts of Human Biology	Revise: Remove state-level requisites Rationale: Allow colleges to use local requisites to implement approved Developmental Education Framework
BTC-150	Bioethics	Revise: Remove state-level requisites Rationale: Allow colleges to use local requisites to implement approved Developmental Education Framework
CEG-211	Hydrology & Erosion Control	Revise: Remove state-level requisites Rationale: Allow colleges to use local requisites to implement approved Developmental Education Framework
CHM-094	Basic Biological Chemistry	Revise: Remove state-level requisites Rationale: Allow colleges to use local requisites to implement approved Developmental Education Framework
CIS-115	Intro to Prog & Logic	Revise: Remove state-level requisites Rationale: Allow colleges to use local requisites to implement approved Developmental Education Framework
CSC-120	Computing Fundamentals I	Revise: Remove state-level requisites Rationale: Allow colleges to use local requisites to implement approved Developmental Education Framework
ENG-110	Freshman Composition	Revise: Remove state-level requisites Rationale: Allow colleges to use local requisites to implement approved Developmental Education Framework
ENG-111	Writing and Inquiry	Revise: Remove state-level requisites Rationale: Allow colleges to use local requisites to implement approved Developmental Education Framework

Approved Revised Courses*		
Course #	Current Course Title	Action Description
ENG-111A	Writing and Inquiry Lab	<u>Revise:</u> Remove state-level developmental education requisites <u>Rationale:</u> Allow colleges to use local requisites to implement approved Developmental Education Framework
ENG-138	English Grammar	<u>Revise:</u> Remove state-level requisites <u>Rationale:</u> Allow colleges to use local requisites to implement approved Developmental Education Framework
HUM-115	Critical Thinking	<u>Revise:</u> Remove state-level requisites <u>Rationale:</u> Allow colleges to use local requisites to implement approved Developmental Education Framework
IMS-121	Integrated Math/Physics I	<u>Revise:</u> Remove state-level requisites <u>Rationale:</u> Allow colleges to use local requisites to implement approved Developmental Education Framework
MAT-110	Math Measurement & Literacy	<u>Revise:</u> Remove state-level requisites <u>Rationale:</u> Allow colleges to use local requisites to implement approved Developmental Education Framework
MAT-121	Algebra/Trigonometry I	<u>Revise:</u> Remove state-level requisites <u>Rationale:</u> Allow colleges to use local requisites to implement approved Developmental Education Framework
MAT-141	Mathematical Concepts I	<u>Revise:</u> Remove state-level requisites <u>Rationale:</u> Allow colleges to use local requisites to implement approved Developmental Education Framework
MAT-143	Quantitative Literacy	<u>Revise:</u> Remove state-level requisites <u>Rationale:</u> Allow colleges to use local requisites to implement approved Developmental Education Framework
MAT-152	Statistical Methods I	<u>Revise:</u> Remove state-level requisites <u>Rationale:</u> Allow colleges to use local requisites to implement approved Developmental Education Framework
MAT-171	Precalculus Algebra	<u>Revise:</u> Remove state-level requisites <u>Rationale:</u> Allow colleges to use local requisites to implement approved Developmental Education Framework

Approved Revised Courses*		
Course #	Current Course Title	Action Description
MAT-175	Precalculus	<u>Revise:</u> Remove state-level requisites <u>Rationale:</u> Allow colleges to use local requisites to implement approved Developmental Education Framework
OPH-140	Math for Opticians	<u>Revise:</u> Remove state-level requisites <u>Rationale:</u> Allow colleges to use local requisites to implement approved Developmental Education Framework
PED-165	Sport Science As a Career	<u>Revise:</u> Remove state-level requisites <u>Rationale:</u> Allow colleges to use local requisites to implement approved Developmental Education Framework
SOC-245	Drugs and Society	<u>Revise:</u> Remove state-level developmental education and ENG-111 requisites <u>Rationale:</u> Allow colleges to use local requisites to implement approved Developmental Education Framework
SRV-110	Surveying I	<u>Revise:</u> Remove state-level requisites <u>Rationale:</u> Allow colleges to use local requisites to implement approved Developmental Education Framework

**BSP requisites are being removed from curriculum courses as a part of these revisions in preparation of the courses being archived to allow for implementation of the approved developmental education framework. BSP courses will be archived at a future WDLC meeting.*

Approved Archived Courses		
Course #	Current Course Title	Action Description
DMA-010**	Operations With Integers	<u>Archive:</u> Course being replaced by updated new course <u>Rationale:</u> Developmental Education Alignment Project
DMA-020**	Fractions and Decimals	<u>Archive:</u> Course being replaced by updated new course <u>Rationale:</u> Developmental Education Alignment Project
DMA-025**	Applications With Real Numbers	<u>Archive:</u> Course being replaced by updated new course <u>Rationale:</u> Developmental Education Alignment Project

DMA-030**	Propor/Ratio/Rate/Percent	<u>Archive:</u> Course being replaced by updated new course <u>Rationale:</u> Developmental Education Alignment Project
DMA-040**	Express/Lin Equat/Inequal	<u>Archive:</u> Course being replaced by updated new course <u>Rationale:</u> Developmental Education Alignment Project
DMA-045**	Linear Equations/Inequalities	<u>Archive:</u> Course being replaced by updated new course <u>Rationale:</u> Developmental Education Alignment Project
DMA-050**	Graphs/Equations of Lines	<u>Archive:</u> Course being replaced by updated new course <u>Rationale:</u> Developmental Education Alignment Project
DMA-060**	Polynomial/Quadratic Appl	<u>Archive:</u> Course being replaced by updated new course <u>Rationale:</u> Developmental Education Alignment Project
DMA-065**	Algebra for Precalculus	<u>Archive:</u> Course being replaced by updated new course <u>Rationale:</u> Developmental Education Alignment Project
DMA-070**	Rational Express/Equation	<u>Archive:</u> Course being replaced by updated new course <u>Rationale:</u> Developmental Education Alignment Project
DMA-080**	Radical Express/Equations	<u>Archive:</u> Course being replaced by updated new course <u>Rationale:</u> Developmental Education Alignment Project
DMS-001	Developmental Math Shell 1	<u>Archive:</u> Course being replaced by updated new course <u>Rationale:</u> Developmental Education Alignment Project
DMS-002	Developmental Math Shell 2	<u>Archive:</u> Course being replaced by updated new course <u>Rationale:</u> Developmental Education Alignment Project
DMS-003	Developmental Math Shell 3	<u>Archive:</u> Course being replaced by updated new course <u>Rationale:</u> Developmental Education Alignment Project

Approved Archived Courses		
Course #	Current Course Title	Action Description
DMS-004	Developmental Math Shell 4	<u>Archive:</u> Course being replaced by updated new course <u>Rationale:</u> Developmental Education Alignment Project
DRE-096**	Integrated Reading and Writing I	<u>Archive:</u> Course being replaced by updated new course <u>Rationale:</u> Developmental Education Alignment Project
DRE-097**	Integrated Reading Writing II	<u>Archive:</u> Course being replaced by updated new course <u>Rationale:</u> Developmental Education Alignment Project
DRE-098**	Integrated Reading Writing III	<u>Archive:</u> Course being replaced by updated new course <u>Rationale:</u> Developmental Education Alignment Project
DRE-099**	Integrated Reading Writing III Option	<u>Archive:</u> Course being replaced by updated new course <u>Rationale:</u> Developmental Education Alignment Project
ENG-001	English Skills Support	<u>Archive:</u> Course being replaced by updated new course <u>Rationale:</u> Developmental Education Alignment Project
ENG-002	Transition English	<u>Archive:</u> Course being replaced by updated new course <u>Rationale:</u> Developmental Education Alignment Project
ENG-011	Writing and Inquiry Support	<u>Archive:</u> Course being replaced by updated new course <u>Rationale:</u> Developmental Education Alignment Project
MAT-001	Math Skills Support	<u>Archive:</u> Course being replaced by updated new course <u>Rationale:</u> Developmental Education Alignment Project

Approved Archived Courses		
Course #	Current Course Title	Action Description
MAT-003	Transition Math	<u>Archive:</u> Course being replaced by updated new course <u>Rationale:</u> Developmental Education Alignment Project
MAT-010	Math Measurement & Literacy Su	<u>Archive:</u> Course being replaced by updated new course <u>Rationale:</u> Developmental Education Alignment Project
MAT-021	Algebra/Trigonometry I Support	<u>Archive:</u> Course being replaced by updated new course <u>Rationale:</u> Developmental Education Alignment Project
MAT-043	Quantitative Literacy Support	<u>Archive:</u> Course being replaced by updated new course <u>Rationale:</u> Developmental Education Alignment Project
MAT-052	Statistical Methods I Support	<u>Archive:</u> Course being replaced by updated new course <u>Rationale:</u> Developmental Education Alignment Project
MAT-071	Precalculus Algebra Support	<u>Archive:</u> Course being replaced by updated new course <u>Rationale:</u> Developmental Education Alignment Project

***Courses previously archived as part of RISE but have been in teach out status since fall 2020 during the period of policy transition. Action to archive will officially end teach out status for these courses at the end of summer 2025.*

Please refer to the next pages for detailed information about the courses.

NEW COURSES:**ENG-025 College English Skills**

Class 3 Lab 0 Clinical 0 Work 0 Credit 3

This course provides the skills necessary for success in college English courses. Topics include reading and writing processes and strategies, such as critical thinking, text analysis, idea development, and application of writing conventions. Upon completion, students should be able to analyze readings and produce unified, coherent, well-developed paragraphs and essays using appropriate document design and standard written English while developing positive academic habits, learning strategies, and a growth mindset.

State Prerequisites None

State Corequisites None

Student Learning Outcomes (SLOs):

1. Comprehend professional and academic readings.
2. Apply the writing process to compose unified, coherent, well-developed paragraphs and essays.
3. Evaluate ideas and information.
4. Use conventions of standard written English.
5. Employ technology ethically and appropriately when composing writing assignments.

Note: This course is designed to align with ENG 110 and ENG 111.

ENG-045 English Skills Support

Class 1 Lab 2 Clinical 0 Work 0 Credit 2

This course provides academic support for the successful completion of gateway English courses by supplementing and reinforcing classroom instruction. Emphasis is placed on developing a growth mindset, expanding skills in active reading and writing processes, applying editing and revision strategies, exercising standard writing conventions through contextualized instruction, and ethically using appropriate technology when reading and writing. Upon completion, students should be able to apply active reading strategies to college-level texts and produce unified, well-developed essays using standard written English.

State Prerequisites None

State Corequisites None

Student Learning Outcomes (SLOs):

The recommendation is that this course does not specify SLOs.

Note: This course is designed as a support course for ENG 110 and ENG 111.

MAT-025 Concepts of Essential Math/Stat

Class 3 Lab 0 Clinical 0 Work 0 Credit 3

This course provides an opportunity to customize foundational math content and statistical concepts specific to real-world applications. Topics include decimals, percentages, ratios, proportions, solving basic equations, geometrical concepts, dimensional analysis, financial applications and elements of statistics and probability. Upon completion, students should be able to successfully demonstrate the use of mathematics, technology and statistical concepts to solve practical problems while developing positive academic habits, learning strategies and growth mindset.

State Prerequisites None

State Corequisites None

Student Learning Outcomes (SLOs):

1. Demonstrate proficiency in operations using rates, ratios, and proportions.
2. Use technology to interpret elements of personal finance.
3. Compute perimeter, area, volume, and angles of geometric figures.
4. Demonstrate proficiency in introductory probability and statistics concepts.
5. Interpret tables, charts and graphs.
6. Solve and interpret real-world mathematical applications.

Note: This course is designed to align with MAT 110, MAT 143, and MAT 152.

MAT-035 Concepts of Algebra

Class 3 Lab 0 Clinical 0 Work 0 Credit 3

This course covers algebraic concepts with an emphasis on application and analysis. Topics include rational/radical expressions and equations, solving equations and inequalities, concepts of functions, factoring, and exponents. Upon completion, students should be able to successfully demonstrate mastery of algebraic concepts through application and analysis while developing positive academic habits, learning strategies and growth mindset.

State Prerequisites None

State Corequisites None

Student Learning Outcomes (SLOs):

1. Demonstrate proficiency in various factoring strategies.
2. Identify and analyze a variety of functions and their graphs.
3. Demonstrate proficiency in polynomial operations.
4. Demonstrate proficiency in various factoring strategies.
5. Identify and analyze a variety of functions and their graphs.
6. Demonstrate proficiency in polynomial operations.
7. Demonstrate proficiency in solving equations and inequalities.
8. Solve and interpret real-world mathematical applications.

Note: This course is designed to align with MAT 121 and MAT 171.

MAT-045 Math Skills Support

Class 1 Lab 2 Clinical 0 Work 0 Credit 2

This course provides opportunities for students to build a stronger foundation for success in their gateway math course by obtaining skills through a variety of instructional strategies. Emphasis is placed on foundational skills as well as concepts, skills, vocabulary and definitions necessary to master student learning outcomes of the gateway math course. Upon completion, students should be able to apply mathematical concepts and critical thinking skills to solve problems relevant to the student's gateway math course.

State Prerequisites None

State Corequisites None

Student Learning Outcomes (SLOs):

The recommendation is that this course does not specify SLOs.

Note: This course is designed as a support course for MAT 110, MAT 121, MAT 143, MAT 152, and MAT 171.

REVISED COURSES: changes are highlighted in yellow.

BIO-090_2020FA**Foundations of Biology****BIO-090**

CIS Course ID S25434

Effective Term Fall 2020

End Term

Class 3 Lab 2 Clinical 0 Work 0 Credit 4

This course introduces basic biological concepts. Topics include basic biochemistry, cell structure and function, interrelationships among organisms, scientific methodology, and other related topics. Upon completion, students should be able to demonstrate preparedness for college-level biology courses.

State Prerequisites None

State Corequisites ~~Take One: ENG 002, BSP 4002 or None~~

College Transfer N/A

National ID (CIP) 26.0101 Biology/Biological Sciences

~~ENG 002 or BSP 4002 requires a grade of P1 or higher to meet the corequisite criteria for BIO-090.~~

Note: The CCL display of the State Corequisites above does not match the specifications (syntax) in Colleague: Take DRE-098, ENG-002, or BSP-4002. All requisites will be removed.

BIO-092_2020FA**Basics of Cell Biology****BIO-092**

CIS Course ID S25435

Effective Term Fall 2020

End Term

Class 3 Lab 2 Clinical 0 Work 0 Credit 4

This course covers basic cell biology. Emphasis is placed on biological chemistry, cell structure and function, cellular metabolism, genetics, and other related topics. Upon completion, students should be able to demonstrate preparedness for college-level biology courses.

State Prerequisites None

State Corequisites ~~Take One: DRE 097, ENG 002, OR BSP 4002~~ None

College Transfer N/A

National ID (CIP) 26.0407 Cell Biology and Anatomy.

~~ENG 002 or BSP 4002 requires a grade of P1 or higher to meet the corequisite criteria for BIO-092.~~

BIO-094_2020FA**Concepts of Human Biology****BIO-094**

CIS Course ID S25436

Effective Term Fall 2020

End Term

Class 3 Lab 2 Clinical 0 Work 0 Credit 4

This course focuses on fundamental concepts of human biology. Topics include terminology, biochemistry, cell biology, tissues, body systems, and other related topics. Upon completion, students should be able to demonstrate preparedness for college-level anatomy and physiology courses.

State Prerequisites None

State Corequisites ~~Take ENG-002 or BSP-4002~~ None

College Transfer N/A

National ID (CIP) 30.2701 Human Biology.

~~ENG-002 or BSP-4002 requires a grade of P1 or higher to meet the corequisite criteria for BIO-094.~~

Note: The CCL display of the State Corequisites above does not match the specifications (syntax) in Colleague: Take DRE-098, ENG-002, or BSP-4002. All requisites will be removed.

BTC-150_2020FA**Bioethics****BTC-150**

CIS Course ID S25437

Effective Term Fall 2020

End Term

Class 3 Lab 0 Clinical 0 Work 0 Credit 3

This course introduces the current ethics issues surrounding the biotechnology industries. Topics will include risk assessment, the relationships between science, technology, and society, and the effects of new biotechnology products upon the natural world. Upon completion, students should be able to demonstrate knowledge and critical thinking skills in decision-making related to bioethical issues.

State Prerequisites None

State Corequisites ~~Take One Set:~~
~~Set 1: ENG-002~~
~~Set 2: BSP-4002~~ None

College Transfer N/A

National ID (CIP) 26.1201 Biotechnology

~~ENG-002 or BSP-4002 requires a grade of P1 or higher to meet the corequisite criteria for BTC-150.~~

Note: The CCL display of the State Corequisites above does not match the specifications (syntax) in Colleague: Take DRE-098, ENG-002, ENG-111, or BSP-4002. All requisites will be removed.

CEG-211_2020FA**Hydrology & Erosion Control****CEG-211**

CIS Course ID S25438

Effective Term Fall 2020

End Term

Class 2 Lab 3 Clinical 0 Work 0 Credit 3

This course introduces basic engineering principles and characteristics of hydrology, erosion and sediment control. Topics include stormwater runoff, gravity pipe flow, open channel flow, low impact development (LID), erosion control devices and practices. Upon completion, students should be able to analyze and design gravitational drainage structures, identify LID and erosion control elements, and prepare a stormwater drainage plan.

State Prerequisites

None

Set 1: DMA-060, DMA-070, and DMA-080

Set 2: DMA-065

Set 3: MAT-121

Set 4: MAT-171

Set 5: MAT-003

Set 6: BSP-4003

State Corequisites

None

College Transfer N/A

National ID (CIP) 15.0201 Civil Engineering Technologies/Technicians.

~~MAT-003 or BSP-4003 credit at tier 2. (Tier 2 credit can be earned in a variety of ways.)~~~~MAT-003 or BSP-4003 requires a grade of P2 or higher to meet prerequisite criteria for CEG-211.~~

CHM-094_2020FA**Basic Biological Chemistry****CHM-094**

CIS Course ID S25439

Effective Term Fall 2020

End Term

Class 3 Lab 2 Clinical 0 Work 0 Credit 4

This course introduces the chemistry important to biological processes. Emphasis is placed on the aspects of general, organic, and biological chemistry that apply to biological systems and processes. Upon completion, students should be able to demonstrate an understanding of the basic biological chemistry necessary for success in college-level biology courses.

State Prerequisites

Set 1: DMA-010, DMA-020, DMA-030, and DMA-040

Set 2: DMA-025 and DMA-040

Set 3: MAT-121

Set 4: MAT-171

Set 5: MAT-003

Set 6: BSP-4003

State Corequisites None

College Transfer N/A

National ID (CIP) 40.0501 Chemistry

CIS-115_2020FA**Intro to Prog & Logic****CIS-115**

CIS Course ID S25440

Effective Term Fall 2020

End Term

Class 2 Lab 3 Clinical 0 Work 0 Credit 3

This course introduces computer programming and problem solving in a structured program logic environment. Topics include language syntax, data types, program organization, problem solving methods, algorithm design, and logic control structures. Upon completion, students should be able to use top-down algorithm design and implement algorithmic solutions in a programming language.

Competencies

1. Apply control structures
2. Apply top-down algorithmic design.
3. Implement algorithmic solutions in a programming language.

State Prerequisites

None

~~Set 1: DMA-010, DMA-020, DMA-030, and DMA-040~~~~Set 2: DMA-025 and DMA-040~~~~Set 3: MAT-121~~~~Set 4: MAT-171~~~~Set 5: MAT-003~~~~Set 6: BSP-4003~~**State Corequisites**

None

College Transfer

This course has been approved for transfer under the CAA as a general education course in Mathematics (Quantitative).

This course has been approved for transfer under the ICAA as a general education course in Mathematics (Quantitative).

National ID (CIP)

11.0103 Information Technology

CSC-120_2020FA**Computing Fundamentals I****CSC-120**

CIS Course ID S25441

Effective Term Fall 2020

End Term

Class 3 Lab 2 Clinical 0 Work 0 Credit 4

This course provides the essential foundation for the discipline of computing and a program of study in computer science, including the role of the professional. Topics include algorithm design, data abstraction, searching and sorting algorithms, and procedural programming techniques. Upon completion, students should be able to solve problems, develop algorithms, specify data types, perform sorts and searches, and use an operating system.

Competencies

1. Apply control structures.
2. Develop algorithms.
3. Perform sorts and searches.

State Prerequisites

None

~~Set 1: DMA-010, DMA-020, DMA-030, DMA-040, and DMA-050~~~~Set 2: DMA-010, DMA-020 DMA-030 and DMA-045~~~~Set 3: DMA-025, DMA-040 and DMA-050~~~~Set 4: DMA-025 and DMA-045~~~~Set 5: MAT-121~~~~Set 6: MAT-171~~~~Set 7: MAT-003~~~~Set 8: BSP-4003~~**State Corequisites**

None

College Transfer

This course has been approved for transfer under the CAA as a premajor and/or elective course requirement.

This course has been approved for transfer under the ICAA as a premajor and/or elective course requirement.

National ID (CIP)

11.0201 Computer Programming/Programmer

ENG-110_2020FA**Freshman Composition****ENG-110**

CIS Course ID S25442

Effective Term Fall 2020

End Term

Class 3 Lab 0 Clinical 0 Work 0 Credit 3

This course is designed to develop informative and business writing skills. Emphasis is placed on logical organization of writing, including effective introductions and conclusions, precise use of grammar, and appropriate selection and use of sources. Upon completion, students should be able to produce clear, concise, well-organized short papers.

State Prerequisites

~~Take one set:~~~~Set 1: DRE-097~~~~Set 2: ENG-002~~~~Set 3: BSP-4002~~

None

State Corequisites

None

College Transfer N/A

National ID (CIP) 23.1301 Writing

ENG-111_2020FA**Writing and Inquiry****ENG-111**

CIS Course ID S25433

Effective Term Fall 2020

End Term

Class 3 Lab 0 Clinical 0 Work 0 Credit 3

This course is designed to develop the ability to produce clear writing in a variety of genres and formats using a recursive process. Emphasis includes inquiry, analysis, effective use of rhetorical strategies, thesis development, audience awareness, and revision. Upon completion, students should be able to produce unified, coherent, well-developed essays using standard written English.

Competencies**Student Learning Outcomes**

1. Demonstrate writing as a recursive process.
2. Demonstrate writing and inquiry in context using different rhetorical strategies to reflect, analyze, explain, and persuade in a variety of genres and formats.
3. Students will reflect upon and explain their writing strategies.
4. Demonstrate the critical use and examination of printed, digital, and visual materials.
5. Locate, evaluate, and incorporate relevant sources with proper documentation.
6. Compose texts incorporating rhetorically effective and conventional use of language.
7. Collaborate actively in a writing community.

State Prerequisites~~Take One Set:~~~~Set 1: DRE-097~~~~Set 2: ENG-002~~~~Set 3: BSP-4002~~ None**State Corequisites**~~Take ENG-011~~ None**College Transfer**

This course has been approved for transfer under the CAA as a general education course in English Composition.

This course has been approved for transfer under the ICAA as a general education course in English Composition.

National ID (CIP) 23.1301 Writing

This is a Universal General Education Transfer Component (UGETC) course. [SBCC/BOG 02/21/14]

Note: The CCL display of the State Corequisites above does not match the specifications (syntax) in Colleague: Take One Set DRE-098; ENG-002; BSP-4002; ENG-011. All requisites will be removed.

ENG-111A_2014FA**Writing and Inquiry Lab****ENG-111A**

CIS Course ID S24023

Effective Term Fall 2014

End Term

Class 0 Lab 2 Clinical 0 Work 0 Credit 1

This writing laboratory is designed to apply the skills introduced in ENG 111. Emphasis is placed on the editing and revision components of the writing process. Upon completion, students should be able to apply those skills in the production of final drafts in ENG 111.

State Prerequisites ~~Take DRE-098~~ None

State Corequisites Take ENG-111

College Transfer N/A

National ID (CIP) 23.1301 Writing

ENG-138_2020FA**English Grammar****ENG-138**

CIS Course ID S25443

Effective Term Fall 2020

End Term

Class 3 Lab 0 Clinical 0 Work 0 Credit 3

This course covers traditional and structural grammar. Emphasis is placed on prescriptive and descriptive grammar, syntax, and grammatical terminology. Upon completion, students should be able to demonstrate an understanding of grammatical applications.

State Prerequisites ~~one set: None~~
~~Set 1: DRE-098~~
~~Set 2: ENG-002~~
~~Set 3: BSP-4002~~
~~Set 4: ENG-111~~

State Corequisites None

College Transfer N/A

National ID (CIP) 23.0101 English Language and Literature

HUM-115_2020FA**Critical Thinking****HUM-115**

CIS Course ID S25444

Effective Term Fall 2020

End Term

Class 3 Lab 0 Clinical 0 Work 0 Credit 3

This course introduces the use of critical thinking skills in the context of human conflict. Emphasis is placed on evaluating information, problem solving, approaching cross-cultural perspectives, and resolving controversies and dilemmas. Upon completion, students should be able to demonstrate orally and in writing the use of critical thinking skills in the analysis of appropriate texts.

State Prerequisites

None

~~Set 1: DRE-098~~~~Set 2: ENG-002~~~~Set 3: BSP-4002~~~~Set 4: ENG-111~~

State Corequisites

None

College Transfer

This course has been approved for transfer under the CAA as a general education course in Humanities/Fine Arts.

This course has been approved for transfer under the ICAA as a general education course in Humanities/Fine Arts.

National ID (CIP)

24.0103 Humanities/Humanistic Studies.

IMS-121_2020FA

Integrated Math/Physics I

IMS-121

CIS Course ID S25445

Effective Term Fall 2020

End Term

Class 2 Lab 3 Clinical 0 Work 0 Credit 3

This course provides an integrated, hands-on approach to algebra, trigonometry, and technical physics with an emphasis on problem-solving and critical thinking. Topics include algebraic and radical functions, statistics, geometry, right triangle trigonometry, systems of equations, complex numbers, units, graphical analysis, vectors, kinematics, and use of technology. Upon completion, students should be able to use mathematics and physical principles to solve problems related to engineering technology, then analyze and communicate these results.

State Prerequisites

~~Take One Set:~~~~Set 1: DMA-010, DMA-020, DMA-030, DMA-040, and DMA-050~~~~Set 2: DMA-010, DMA-020, DMA-030, and DMA-045~~~~Set 3: Take DMA-025, DMA-040, and DMA-050~~~~Set 4: Take DMA-025 and DMA-045~~~~Set 5: MAT-003~~~~Set 6: BSP-4003~~ None

State Corequisites

None

College Transfer

N/A

National ID (CIP)

40.0810 Theoretical and Mathematical Physics.

MAT-110_2020FA

Math Measurement & Literacy

MAT-110

CIS Course ID S25428

Effective Term Fall 2020

End Term

Class 2 Lab 2 Clinical 0 Work 0 Credit 3

This course provides an activity-based approach that develops measurement skills and mathematical literacy using technology to solve problems for non-math intensive programs. Topics include unit conversions and estimation within a variety of measurement systems; ratio and proportion; basic geometric concepts; financial literacy; and statistics including measures of central tendency, dispersion, and charting of data. Upon completion, students should be able to demonstrate the use of mathematics and technology to solve practical problems, and to analyze and communicate results.

Competencies

·Student Learning Outcomes

1. Demonstrate estimation skills and justify results.
2. Use dimensional analysis to convert units of measurement.
3. Employ fractions, percentages and proportions to solve contextual problems.
4. Compute geometric measurements of perimeter, area, volume and angles.
5. Use technology to analyze and interpret elements of personal finance.
6. Compare and contrast measures of center and measures of dispersion.
7. Interpret tables, charts, and graphs and communicate results.

State Prerequisites

~~Take One Set:~~~~Set 1: DMA-010, DMA-020, and DMA-030~~~~Set 2: DMA-025~~~~Set 3: MAT-003~~~~Set 4: BSP-4003~~ None

State Corequisites

~~Take MAT-010~~ None

College Transfer N/A

National ID (CIP) 27.0101 Mathematics

Note: The CCL display of the State Corequisites above does not match the specifications (syntax) in Colleague: Take One Set DMA-010, DMA-020, DMA-030; DMA-025; MAT-003; BSP-4003; MAT-010. All requisites will be removed.

MAT-121_2020FA**Algebra/Trigonometry I****MAT-121**

CIS Course ID S25429

Effective Term Fall 2020

End Term

Class 2 Lab 2 Clinical 0 Work 0 Credit 3

This course provides an integrated approach to technology and the skills required to manipulate, display, and interpret mathematical functions and formulas used in problem solving. Topics include the properties of plane and solid geometry, area and volume, and basic proportion applications; simplification, evaluation, and solving of algebraic equations and inequalities and radical functions; complex numbers; right triangle trigonometry; and systems of equations. Upon completion, students will be able to demonstrate the ability to use mathematics and technology for problem-solving, analyzing and communicating results.

Competencies

·Student Learning Outcomes

1. Use geometric principles to solve industrial application problems involving perimeter, area, and volume.
2. Employ basic algebraic operations to simplify, evaluate, and solve proportions, radical and other algebraic functions, equations, and inequalities.
3. Perform basic algebraic operations involving complex numbers.
4. Solve applied problems using trigonometric principles involving right triangles.
5. Solve applied problems using systems of equations involving two and three variables.
6. Use technology to solve practical problems and communicate results.

State Prerequisites

Take One Set:

Set 1: DMA-010, DMA-020, DMA-030, DMA-040, DMA-050

Set 2: DMA-025, DMA-040, DMA-050

Set 3: DMA-025, DMA-045

Set 4: DMA-010, DMA-020, DMA-030, DMA-045

Set 5: MAT-003

Set 6: BSP-4003 None

State Corequisites

Take MAT-021 None

College Transfer N/A

National ID (CIP) 27.0101 Mathematics

The student is eligible for this course if MAT-003 is in the student's record with a demonstrated mastery level of tier 2. Successful completion of MAT-143 or MAT-152 permits a student to register for MAT-121 with the coreq MAT-021. Successful completion of MAT-171 permits a student to register for MAT-121 without the coreq MAT-021.

Note: The CCL display of the State Corequisites above does not match the specifications (syntax) in Colleague: Take One Set DMA-010, DMA-020, DMA-030, DMA-040, DMA-050, DMA-060; DMA-010, DMA-020, DMA-030, DMA-045, DMA-060; DMA-025, DMA-040, DMA-050, DMA-060; DMA-025, DMA-045, DMA-060; BSP-4003; MAT-071; MAT-021. All requisites will be removed.

MAT-141_2020FA**Mathematical Concepts I****MAT-141**

CIS Course ID S25446

Effective Term Fall 2020

End Term

Class 3 Lab 0 Clinical 0 Work 0 Credit 3

This course is the first of a two-course sequence that develops a deeper understanding and appreciation of the basic concepts of mathematics. Emphasis is placed on sets, logic, number bases, elementary number theory, introductory algebra, measurement including metrics, and problem solving. Upon completion, students should be able to communicate orally and in writing these basic mathematical concepts.

State Prerequisites

~~Take One Set:~~~~Set 1: DMA-010, DMA-020, DMA-030, and DMA-040~~~~Set 2: DMA-025 and DMA-040~~~~Set 3: MAT-121~~~~Set 4: MAT-171~~~~Set 5: MAT-003~~~~Set 6: BSP-4003 None~~

State Corequisites

None

College Transfer

Under the CAA, this course satisfies the general education Mathematics requirement for the AA and AFA degrees. It does not satisfy the general education Mathematics requirement for the AS degree.

Under the ICAA, this course satisfies the general education Mathematics requirement for the AA and AFA degrees. It does not satisfy the general education Mathematics requirement for the AS degree.

National ID (CIP)

27.0101 Mathematics

MAT-143_2020FA**Quantitative Literacy****MAT-143**

CIS Course ID S25430

Effective Term Fall 2020

End Term

Class 2 Lab 2 Clinical 0 Work 0 Credit 3

This course is designed to engage students in complex and realistic situations involving the mathematical phenomena of quantity, change and relationship, and uncertainty through project- and activity-based assessment. Emphasis is placed on authentic contexts which will introduce the concepts of numeracy, proportional reasoning, dimensional analysis, rates of growth, personal finance, consumer statistics, practical probabilities, and mathematics for citizenship. Upon completion, students should be able to utilize quantitative information as consumers and to make personal, professional, and civic decisions by decoding, interpreting, using, and communicating quantitative information found in modern media and encountered in everyday life.

Competencies**Student Learning Outcomes**

1. Judge the reasonableness of results using estimation, logical processes, and a proper understanding of quantity
2. Utilize proportional reasoning to solve contextual problems and make conversions involving various units of measurement
3. Identify, interpret, and compare linear and exponential rates of growth to make predictions and informed decisions based on data and graphs
4. Differentiate between simple and compound interest and analyze the long-term effects of saving, investing, and borrowing
5. Describe, analyze, and interpret statistical information such as graphs, tables, and summarized data to draw appropriate conclusions when presented with actual statistical studies
6. Determine probabilities and expected values and use them to assess risk and make informed decisions
7. Analyze civic and/or societal issues and critique decisions using relevant mathematics

State Prerequisites**Take One Set:**~~Set 1: DMA-010, DMA-020, DMA-030, and DRE-098~~~~Set 2: DMA-010, DMA-020, DMA-030, and ENG-002~~~~Set 3: DMA-010, DMA-020, DMA-030, and BSP-4002~~~~Set 4: DMA-025, and DRE-098~~~~Set 5: DMA-025, and ENG-002~~~~Set 6: DMA-025, and BSP-4002~~~~Set 7: MAT-003 and DRE-098~~~~Set 8: MAT-003 and ENG-002~~~~Set 9: MAT-003 and BSP-4002~~~~Set 10: BSP-4003 and DRE-098~~

Set 11: BSP-4003 and ENG-002

Set 12: BSP-4003 and BSP-4002 None

State Corequisites Take MAT-043 None

College Transfer This course has been approved for transfer under the CAA as a general education course in Mathematics (Quantitative).
This course has been approved for transfer under the ICAA as a general education course in Mathematics (Quantitative).

National ID (CIP) 27.0101 Mathematics

Successful completion of MAT-152 permits a student to register for MAT-143 without the coreq MAT-043.

This is a Universal General Education Transfer Component (UGETC) course. [SBCC/BOG 02/21/14]

Note: The CCL display of the State Corequisites above does not match the specifications (syntax) in Colleague: Take One Set DMA-010, DMA-020, DMA-030, DMA-040, DMA-050; DMA-010, DMA-020, DMA-030, DMA-045; DMA-025, DMA-040, DMA-050; DMA-025, DMA-045; MAT-003; BSP-4003; MAT-043; MAT-052. All requisites will be removed.

MAT-152_2020FA**Statistical Methods I****MAT-152**

CIS Course ID S25431

Effective Term Fall 2020

End Term

Class 3 Lab 2 Clinical 0 Work 0 Credit 4

This course provides a project-based approach to introductory statistics with an emphasis on using real-world data and statistical literacy. Topics include descriptive statistics, correlation and regression, basic probability, discrete and continuous probability distributions, confidence intervals and hypothesis testing. Upon completion, students should be able to use appropriate technology to describe important characteristics of a data set, draw inferences about a population from sample data, and interpret and communicate results.

Competencies

·Student Learning Outcomes

1. Organize, display, calculate, and interpret descriptive statistics
2. Apply basic rules of probability
3. Identify and apply appropriate probability distributions
4. Perform regression analysis
5. Analyze sample data to draw inferences about a population parameter
6. Communicate results through a variety of media

State Prerequisites

Take One Set:

Set 1: DMA 010, DMA 020, DMA 030, and DRE 098

Set 2: DMA 010, DMA 020, DMA 030, and ENG 002

Set 3: DMA 010, DMA 020, DMA 030, and BSP 4002

Set 4: DMA 025, and DRE 098

Set 5: DMA 025, and ENG 002

Set 6: DMA 025, and BSP 4002

Set 7: MAT 003 and DRE 098

Set 8: MAT 003 and ENG 002

Set 9: MAT 003 and BSP 4002

Set 10: BSP 4003 and DRE 098

Set 11: BSP 4003 and ENG 002

Set 12: BSP 4003 and BSP 4002 None

State Corequisites

Take MAT-052 None

College Transfer

This course has been approved for transfer under the CAA as a general education course in Mathematics (Quantitative).

This course has been approved for transfer under the ICAA as a general education course in Mathematics (Quantitative).

National ID (CIP)

27.0501 Statistics

This is a Universal General Education Transfer Component (UGETC) course. [SBCC/BOG 02/21/14] Successful completion of MAT-143 permits a student to register for MAT-152 without the coreq MAT-052.

Note: The CCL display of the State Corequisites above does not match the specifications (syntax) in Colleague: Take One Set DMA-010, DMA-020, DMA-030, DMA-040, DMA-050; DMA-010, DMA-020, DMA-030, DMA-045; DMA-025, DMA-040, DMA-050; DMA-025, DMA-045; MAT-003; BSP-4003; MAT-043; MAT-052. All requisites will be removed.

MAT-171_2020FA**Precalculus Algebra****MAT-171**

CIS Course ID S25432

Effective Term Fall 2020

End Term

Class 3 Lab 2 Clinical 0 Work 0 Credit 4

This course is designed to develop topics which are fundamental to the study of Calculus. Emphasis is placed on solving equations and inequalities, solving systems of equations and inequalities, and analysis of functions (absolute value, radical, polynomial, rational, exponential, and logarithmic) in multiple representations. Upon completion, students should be able to select and use appropriate models and techniques for finding solutions to algebra-related problems with and without technology.

Competencies

Student Learning Outcomes

1. Use analytical, graphical, and numerical representations to solve absolute value, radical, polynomial, rational, exponential, and logarithmic equations with both real and complex solutions.
2. Use analytical, graphical, and numerical representations to solve absolute value, polynomial and rational inequalities with real solutions.
3. Use analytical, graphical, and numerical representations to analyze absolute value, radical, polynomial, rational, exponential and logarithmic functions with both real and complex zeros.
4. Use multiple methods to solve problems involving systems of equations and apply to decomposing partial fractions.
5. Construct the composition and inverse of functions.
6. Use polynomial, exponential and logarithmic functions to model various real world situations in order to analyze, draw conclusions, and make predictions.

State Prerequisites

~~Take One Set:~~~~Set 1: DMA-010, DMA-020, DMA-030, DMA-040, DMA-050~~~~Set 2: DMA-010, DMA-020, DMA-030, DMA-045~~~~Set 3: DMA-025, DMA-045~~~~Set 4: DMA-025, DMA-040, DMA-050~~~~Set 5: MAT-121~~~~Set 6: MAT-003~~~~Set 7: BSP-4003~~ None

State Corequisites

~~Take MAT-071~~ None

College Transfer

This course has been approved for transfer under the CAA as a general education course in Mathematics.

This course has been approved for transfer under the ICAA as a general education course in Mathematics.

National ID (CIP)

27.0102 Algebra and Number Theory.

This is a Universal General Education Transfer Component (UGETC) course. [SBCC/BOG 02/21/14]

~~Successful completion of MAT-121 permits a student to register for MAT-171 without the coreq MAT-071.~~

~~Successful completion of MAT-143 or MAT-152 permits a student to register for MAT-171 with the coreq MAT-071.~~

~~The student is eligible for this course if MAT-003 is in the student's record with a demonstrated mastery level of Tier 2.~~

Note: The CCL display of the State Corequisites above does not match the specifications (syntax) in Colleague: Take One Set DMA-010, DMA-020, DMA-030, DMA-040, DMA-050, DMA-060, DMA-070, DMA-080; DMA-010, DMA-020, DMA-030, DMA-040, DMA-050, DMA-065; DMA-025, DMA-040, DMA-050, DMA-060, DMA-070, DMA-080; DMA-025, DMA-040, DMA-050, DMA-065; DMA-025, DMA-045, DMA-060, DMA-070, DMA-080; DMA-025, DMA-045, DMA-065; BSP-4003; MAT-021; MAT-071. All requisites will be removed.

MAT-175_2023SP**Precalculus****MAT-175**

CIS Course ID S26068

Effective Term Spring 2023

End Term

Class 4 Lab 2 Clinical 0 Work 0 Credit 5

This course provides an intense study of the topics which are fundamental to the study of calculus. Emphasis is placed on equations and inequalities, functions and their graphs, with special attention to polynomial, rational, exponential, logarithmic and trigonometric functions, and analytic trigonometry and geometry. Upon completion, students should be able to solve practical problems and use appropriate models for analysis and prediction.

State Prerequisites None

State Corequisites None

College Transfer This course has been approved for transfer under the CAA as a general education course in Mathematics.
This course has been approved for transfer under the ICAA as a general education course in Mathematics.

National ID (CIP) 27.0101 Mathematics

This is a Universal General Education Transfer Component (UGETC) course. [SBCC/BOG 08/11/23]

~~Below are the prerequisites for MAT-175: Take 1 Group: Take DMA-010 DMA-020 DMA-030 DMA-040 DMA-050 Take DMA-010 DMA-020 DMA-030 DMA-045 Take DMA-025 DMA-045 Take DMA-025 DMA-040 DMA-050 Take MAT-121 Take MAT-003 with a demonstrated mastery of tier 3 Take BSP-4003 with a demonstrated mastery of tier 3~~

OPH-140_2020FA**Math for Opticians****OPH-140**

CIS Course ID S25447

Effective Term Fall 2020

End Term

Class 5 Lab 0 Clinical 0 Work 0 Credit 5

This course covers the arithmetic, algebra, geometry, and trigonometry necessary to evaluate optical formulas. Topics include signed arithmetic, evaluation and solution of equations, use of the calculator, and basic trigonometric functions. Upon completion, students should be able to evaluate formulas as used in opticianry courses.

State Prerequisites

~~Take One Set:~~~~Set 1: DMA-010, DMA-020, DMA-030, DMA-040, and DMA-050~~~~Set 2: DMA-010, DMA-020, DMA-030, and DMA-045~~~~Set 3: DMA-025, DMA-040, and DMA-050~~~~Set 4: DMA-025 and DMA-045~~~~Set 5: MAT-003~~~~Set 6: BSP-4003~~ None

State Corequisites

None

College Transfer

N/A

National ID (CIP)

51.1006 Ophthalmic Laboratory Technology/Technician

PED-165_2020FA**Sport Science As a Career****PED-165**

CIS Course ID S25448

Effective Term Fall 2020

End Term

Class 3 Lab 0 Clinical 0 Work 0 Credit 3

This course provides students with foundational knowledge about the study of physical activity and career opportunities within the discipline. Emphasis will be placed on the role of physical activity, the subdisciplines of the field, and possible career choices. Upon completion, students should have an understanding of the subdisciplines and employment opportunities within an Exercise and Sport Science program.

State Prerequisites

None

~~Set 1: DRE-097~~~~Set 2: ENG-002~~~~Set 3: BSP-4002~~~~Set 4: ENG-111~~

State Corequisites

None

College Transfer

This course has been approved for transfer under the CAA as a premajor and/or elective course requirement.

This course has been approved for transfer under the ICAA as a premajor and/or elective course requirement.

National ID (CIP)

31.0501 Sports

SOC-245_2020FA**Drugs and Society****SOC-245**

CIS Course ID S25449

Effective Term Fall 2020

End Term

Class 3 Lab 0 Clinical 0 Work 0 Credit 3

This course covers the impact of drugs on society and human behavior. Emphasis is placed on the construction of a modern social problem from contrasting historical responses to mind-altering substances. Upon completion, students should be able to apply sociological analysis in evaluating drug use as a societal and interpersonal problem.

State Prerequisites Take ~~One Set:~~~~Set 1: DRE-098 and SOC-210~~~~Set 2: ENG-002 and SOC-210~~~~Set 3: BSP-4002 and SOC-210~~~~Set 4: ENG-111 and SOC-210~~

State Corequisites None

College Transfer This course has been approved for transfer under the CAA as a premajor and/or elective course requirement.

This course has been approved for transfer under the ICAA as a premajor and/or elective course requirement.

National ID (CIP) 45.1101 Sociology

SRV-110_2020FA**Surveying I****SRV-110**

CIS Course ID S25450

Effective Term Fall 2020

End Term

Class 2 Lab 6 Clinical 0 Work 0 Credit 4

This course introduces the theory and practice of plane surveying. Topics include the precise measurement of distances, angles, and elevations; bearing, azimuth and traverse computations; topography and mapping. Upon completion, students should be able to use/care for surveying equipment, collect field survey data, perform traverse computations and create a contour map.

State Prerequisites None

State Corequisites None

~~Set 1: MAT-121~~~~Set 2: MAT-171~~~~Set 3: MAT-003~~~~Set 4: BSP-4003~~

College Transfer N/A

National ID (CIP) 15.1102 Surveying Technology/Surveying

~~MAT-003 or BSP-4003 credit at tier 2 or higher. (Tier 2 credit can be earned in a variety of ways.)~~~~Requires a grade of P2 or higher to meet corequisite criteria for SRV-110.~~

Note: The CCL display of the State Corequisites above does not match the specifications (syntax) in Colleague: Take One Set MAT-121; MAT-171; DMA-060, DMA-070, DMA-080; DMA-065; MAT-003; BSP-4003. All requisites will be removed.