Bluegrass Community & Technical College
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Course Placement Report: 2014-15 Academic Year

(Effective Fall 2014)

Student: _____ Student ID Number: _____ Date: _____

Listed below are your COMPASS and/or ACT scores that determine your placements into courses* in areas of math, reading and writing.

COMPASS Placements		**Required Course** (See page 2 for math course descriptions and page 4 for Pathway information).		
***Math Placement**		**♦Technical Math Path**	**♦Liberal Arts Math Path**	**♦College Algebra Path**
Pre-Algebra	**Range**			
	1 – 23	*retest – If 2nd score falls in same range, refer to tutoring services* ✧		
	24 – 41	MAT 55 or MAT 11#	MAT 55 or MAT 11#	MAT 55 or MAT 11#
	42 – 99	MAT 65 or MAT 75 or MAT 11#	♦MAT 65 or MAT 75 or MAT 11#	MAT 65 or MAT 11#
Algebra	**Range**	*NOTE: Pre-Algebra score must be 24 or higher for Algebra score to be valid.*		
	1 – 15	MAT 55 or MAT 11#	MAT 55 or MAT 11#	MAT 55 or MAT 11# or MAT 55/65 Combo**
	16 – 30	♦MAT 65 or MAT 75 or MAT 11# *(MAT 65 or MAT 11 required for MAT 126)*	♦MAT 65 or MAT 75 or MAT 11# *(MAT 75 or MAT 11 recommended for this path, otherwise must also take MAT 85)*	MAT 65 or MAT 11# or MAT 65/85 Combo**
	25 – 30	♦MAT 105, MAT 110 or MAT 116 *all with supplemental instruction determined by Math Dept.*		
	31 – 35	♦MAT 105, MAT 110, MAT 116 or MAT 126 *all with supplemental instruction determined by Math Dept.*	♦MAT 75 or MAT 85 or MAT 11# *(see note above)*	MAT 85 or MAT 11# or MAT 85/150 Combo**
	36 – 49	♦ MAT 105, MAT 110, MAT 116, or MAT 126	♦MA 111	
	50 – 99			♦MAT 150 or MAT 160
***Reading**	**Range**	See page 3 for reading course descriptions.		
	1 – 48	*retest - If 2nd score falls in same range, refer to tutoring services.* ✧		
	49 – 69	= RDG 20		
	70 – 82	= RDG 30		
	83 – 84	= RDG 185		
	85 – 100	= No reading placement.		
***ENG/Writing**	**Range**	See page 3 for English course descriptions.		
	1 – 25	*retest - If 2nd score falls in same range, refer to tutoring services* ✧		
	26 – 38	= ENC 90		
	39 – 73	= ENC 91		
	74 – 100	= ENG 101		

ACT Placements	
Math	**Required Course**
	0-18 = COMPASS Placement Test
	19-21 (SAT Math 460-509) = ♦MA 111 or MAT 126 or MAT 85*
	22 or higher (SAT Math 510 or higher) = ♦MAT 150 or ♦MA 111 or ♦MAT 126
	23 or higher = ♦MAT 160
Reading	**Required Course**
	0-19 = COMPASS Placement Test
	20 or higher (SAT Crit. Reading 470 or higher) = exempt from Reading
ENG/Writing	**Required Course**
	0-17 = COMPASS Placement Test
	18 or higher (SAT Wr. 430 & up **Or** SAT Crit. Read. 450 & up) = ENG 101

***Courses numbered below 100 are transitional (developmental) and DO NOT count toward credits needed for a degree and they DO NOT count toward GPA's. These courses DO count when determining full or part-time status. Financial aid WILL cover the cost if the student has been approved for aid and is enrolled in at least six credit hours.*

♦Math course selection/path depends on student's major and degree.

 # MAT 11 is a flexible pace, individualized, computer-based course that covers all developmental math content. Students start in the course at their placement level and leave the course when they have met the prerequisites needed. MAT 11 promotes acceleration, but, depending on student needs, may require multiple semester enrollments.

*** Combo courses are paired half-term courses allowing for accelerated completion of two courses in one semester. Combo courses meet 4 days a week and students must enroll in BOTH courses, designed with common section numbers that have a "M" (Ex. J0M1).*

***NOTE:** If you believe these test results do not accurately reflect your abilities, call Advising/Assessment for details about retesting at (859) 246-6220 (Cooper Campus) or (859) 246-6539 (Leestown Campus).*

Course descriptions for each area start on reverse side.►

Math Placement Course Descriptions

_____ **MAT 11* -Transitional Algebra (3 cr.)** Provides individualized and accelerated progression through Common Core Standards to prepare students for entry-level college mathematics. **This course can be used to meet the prerequisites for ANY math course on this list. It is a flexible-paced, individualized computer-based course. Students start in the course at their individual placement levels and leave the course when they have met their individual college math prerequisites. This course may allow completion of all prerequisites in a single semester or may require multiple semester enrollments depending on individual student progress and prerequisite needs.**

_____ **MAT 55*- Pre-Algebra (3 cr.)** Includes operations on integers, decimals and fractions. Introduces exponents, square roots, percents, ratios, proportions, prime factorization, basic geometry, algebraic expressions, basic linear equations, and applications. **This course is the prerequisite for MAT 65 or MAT 75. After completing MAT 55, consult your major requirements and see corresponding course descriptions below. (Also available as a COMBO** course.)**

_____ **MAT 65*- Basic Algebra (3 cr.)** Includes linear equations and inequalities, integer exponents, polynomials, factoring, equations of lines and their graphs, systems of linear equations, and applications. **This course is the prerequisite for MAT 85 and also meets the prerequisite for technical math classes MAT 105, MAT 110, MAT 116, and MAT 126. (Also available as a COMBO** course.)**

_____ **MAT 75*- Mathematical Literacy (4 cr.)** Develops the mathematical thinking skills and understanding needed for non-math and non-science majors, in a one-semester course integrating numeracy, proportional reasoning, algebraic reasoning, and functions. **This course is the recommended prerequisite for MA 111 and can also meet the prerequisite for technical math classes MAT 105, MAT 110, MAT 116. It does NOT meet the prerequisites for MAT 85, MAT 126, MAT 150 or MAT 160.**

_____ **MAT 85* - Intermediate Algebra (3 cr.)** Includes rational expressions, radical expressions, rational exponents, graphing parabolas, inequalities, equations of lines, functions and applications, with emphasis on solving quadratic, rational, and radical equations. Prerequisite: MAT 65 or math placement test. **This course is the prerequisite for MAT 150 and MAT 160. It can also meet the prerequisites for MA 111, but is not recommended. (Also available as a COMBO** course.)**

_____ **MAT 105 - Business Mathematics (3 cr.)** Covers basic mathematical concepts as applied to finance. Includes percentages, simple and compound interest, annuities, sinking funds, depreciation, and consumer debt, including installment buying, credit cards, and mortgages. Prerequisite: MAT 65 or MAT 75 or equivalent

_____ **MAT 110 - Applied Mathematics (3 cr.)** Includes the concepts of ratio and proportion, units and conversions, linear equations in two variables, inequalities, graphing and writing equation of a line, percents, interest, descriptive statistics, and logical symbolism. Emphasizes applications in the various technologies. Prerequisite: MAT 65 or MAT 75 or equivalent

_____ **MAT 116 - Technical Mathematics (3 cr.)** Includes some mathematical concepts from algebra, geometry, and trigonometry and applications relevant to these topics. Includes unit conversions, variation, measurement of geometric figures, vectors, and solving right and oblique triangles using trigonometry. Emphasizes applications in the various technologies. Prerequisite: MAT 65 or MAT 75 or equivalent

_____ **MAT 126 - Technical Algebra and Trigonometry (3 cr.)** Examines mathematical concepts from algebra and trigonometry. Includes vectors, phasor algebra, variation, trigonometric functions, coordinate systems, system of linear equations, quadratic, rational, exponential and logarithmic equations. Prerequisite: MAT 65 or MAT 75 or equivalent

_____ **MA 111 - Introduction to Contemporary Mathematics (3 cr.)** An introduction to concepts and applications of mathematics, with examples drawn from such areas as voting methods, apportionment, consumer finance, graph theory, tilings, polyhedra, number theory and game theory. Prereq: Math ACT score of 19 or above or completion of MAT 75 or MAT 85 or equivalent. **This course does <u>not</u> meet the prerequisites for any college algebra or calculus course**.

_____ **MAT 150 - College Algebra (3 cr.)** 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 MAT 150 and any other College Algebra or Precalculus course. Credit not available on the basis of special exam. Prerequisites: Math ACT score of 22 or above or completion of MAT 85 or MAT 126 or equivalent

_____ **MAT 160 - Pre-Calculus (5 cr.)** Prepares students to enroll in a calculus sequence. Includes trigonometric functions, exponentials and logarithms, graphs, polar coordinates, conic sections, and systems of nonlinear equations. Students may not receive credit for both MAT 160 and either College Algebra or Trigonometry. Credit is not available by special examination. Prerequisites: Math ACT score of 23 or above or completion of MAT 85 or equivalent.

For additional math guidelines including pathways see page 4.

Reading and Placement Course Descriptions

_____ **RDG 20*- Improved College Reading (3 cr.)** Designed to improve proficiency in reading comprehension, vocabulary, and critical thinking skills and to prepare students for college reading through individualized and/or group instruction and practice. **Once you pass this course, you must take RDG 30.**

_____ **RDG 30*- Reading for the College Classroom (3 cr.)** Designed to improve proficiency in reading comprehension, vocabulary, and critical reading skills. Strategies taught in the course are applied to college level reading materials. **Students who pass this course have completed their reading placement requirement.**

_____ **RDG 185 - College Reading (3 cr.)** This course is designed to improve textbook reading at the college level by developing vocabulary techniques, comprehension strategies, and understanding of textbook graphics. Theories and strategies taught in the course are applied to college level reading materials. This course is for degree credit.

_____ **FYE 105 – Achieving Academic Success (3 cr.)** Introduces new students to strategies that promote academic, interpersonal, and intrapersonal success in the college environment. Aims to foster a sense of belonging, promote engagement in the curricular and co-curricular life of the college, and provide opportunities for students to develop academic plans that align with career and life goals. **Recommended for all incoming freshman. Highly recommended for students who place into RDG 20 or RDG 30, but course is open to everyone.**

English Placement Course Descriptions

_____ **ENC 90* - Foundations of College Writing (3 cr.)** An introduction to composition for students needing basic writing instruction and a comprehensive review of mechanics and grammar as these apply to their own writing. This course stresses clarity, organization, development, and correctness in writing with an emphasis on paragraph-length assignments. **Once you pass this course, you must take ENC 91.**

_____ **ENC 91* - Foundations of College Writing II (3 cr.)** Designed for students with some writing experience, this course includes instruction in the following: the writing process, organization, multiparagraph writings, editorial improvement, and critical reading. An introduction to research and documentation is also included. **You must pass ENC 91 before you take ENG 101.**

_____ **ENG 101 - Writing I (3 cr.)** A course in writing emphasizing argument. Instruction and practice in reading critically, thinking logically, responding to texts, developing research skills, writing substantial essays through systematic revision, addressing specific audiences, expressing ideas in standard and correct English. Includes grammar and mechanics review.

✧***For tutoring services to improve your COMPASS scores before retesting****, make an appointment by calling (859) 246-6611 or in person at the Leestown Campus Student Success Center in Building A, room 116.* ***These services are not provided on a walk-in basis.*** *It is your responsibility to participate in these free tutoring services. Students will not be able to test for free a third time unless they complete tutoring.* ***You won't be allowed to sign up for a course in this subject until at least the minimum score required for placement into a course in this subject is reached.*** *If you don't reach the minimum score in this subject you may also be restricted from taking courses in other subjects.*

For additional math guidelines including pathways see page 4.

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(Revised 6/3//14)

Which Math Class do I need?

Find your degree plan/major in the list below to choose the best Pathway. Then refer to the Course Placement Form to choose which developmental courses to take.

THIS IS A GENERAL GUIDE ONLY! The student is ultimately responsible for knowing which math course is required for his/her academic goals. Please check your specific program plan either online and/or with your academic advisor.

BCTC Major/Plan/Degree	Recommended Pathway
ASSOCIATE OF SCIENCE (AS)	
Pre-Business Major for Transfer (Accounting, Economics, Marketing, Management, etc.)	**College Algebra (MAT150)**
Pre-STEM Major for Transfer (Biology, Physical therapy, Chemistry, Engineering, etc.)	**Pre-Calculus (MAT160)**
ASSOCIATE OF ARTS (AA)	
Pre-Liberal Arts Major for Transfer (History, Art, Communications, Psychology, etc.)	**Liberal Arts Math (MA 111)**
ASSOCIATE OF FINE ARTS (AFA)	
Theater	**Liberal Arts Math (MA 111)**
ASSOCIATE OF APPLIED SCIENCE (AAS)	
• TRADES AND TECHNOLOGIES	
Air Conditioning Tech, Architectural Tech, Automotive Tech, CAD Tech, Cosmetology, Computerized Manufacturing & Machining, Construction Tech, Fire Rescue, Welding Tech	**Technical Math****
Fire Science	**College Algebra (MAT150)**
• ALLIED HEALTH	
Dental Hygiene, Human Services (non-transfer only), Respiratory Care, Surgical Tech	**Technical Math****
Nuclear Medicine, Radiography,	**College Algebra (MAT150)**
• BUSINESS	
Business Management & Marketing (Equine Management, Management, Real Estate)	**College Algebra (MAT150)**
Education Teacher Prep (Elementary Ed) for Transfer (verify with specific transfer institution)	**Liberal Arts or College Algebra**
Health Information Tech, Interdisciplinary Early Childhood Education, Office Systems Tech, Medical Information Tech,	**Technical Math****
• COMMUNICATIONS, HISTORY, LANG & SOCIAL SCIENCES	
Human Services, Criminal Justice (non-transfer only)	**Technical Math****
• COMPUTER SCIENCES AND INFORMATION SYSTEMS	
Computer & Info Tech (Applications, Computer Science, Internet Tech, Network Tech)	**College Algebra (MAT150)**
Information Management & Design, Library Information (non-transfer only)	**Technical Math****
• MANUFACTURING-INDUSTRIAL TECHNOLOGY	
Electrical Tech, Energy Tech, Engineering Tech, Industrial Maintenance Tech	**Technical Math (MAT126)**
• NATURAL SCIENCES	
BioTech,	**Technical Math****
Environmental Science	**College Algebra (MAT150)**
• NURSING	
Nursing Major (Associate degree, RN, BSN, 4-year Nursing)	**Liberal Arts Math (MA 111)**

Most Efficient College Algebra Path:	MAT 55* → MAT 65* → MAT 85* → MAT150*	or MAT 11# → MAT150
Most Efficient Liberal Arts Math Path:	MAT 55 → MAT 75 → MA111	or MAT 11# → MA111
Most Efficient Technical Math Path:	MAT 55 → MAT 65 or MAT 75 → Technical Math	or MAT 11# → Technical Math

* *These courses are available as COMBO course pairs for acceleration: MAT 55 & MAT 65; MAT 65 & MAT 85; MAT 85 & MAT 150*

** *See individual program plans for specific Technical Math Course (MAT 105, MAT 110, MAT 116) required, if any.*

\# *MAT 11 covers all entry-level college math prerequisites in an individualized self-paced environment. Multiple enrollments in MAT 11 may be required based on student progress and prerequisite needs.*