KENTUCKY STATE UNIVERSITY
FACULTY SENATE
CURRICULUM COMMITTEE:

FSCC# 13/14-20

CURRICULAR/PROGRAM CHANGE TRACKING DOCUMENT

ACADEMIC UNIT: Mathematics

DATE SUBMITTED: March 26, 2014

1. BRIEF EXPLANATION OF PROPOSED CHANGE:
The proposed courses MAT 172 and MAT 176 are for students that need MAT 111 and MAT 115 (resp.) but need to take the developmental course (096 and 097 resp.) that prepares them for the classes. The courses include the needed remediation saving them time and money.

2. CHECK ITEM(s) BELOW FOR CHANGES DESIRED:

☐ New Degree Certification  ☐ Deletion of Degree or Certification
☐ New or Revised Major  ☐ Deletion of Course
☐ New or Revised Minor  ☐ Revised Degree or Certification
☒ New Course(s)  ☐ Revised Course
☐ Course Level (number) Change  ☐ Other (specify below):

I. Dean’s Action:

☒ Approved  ☐ Disapproved  ☐ Returned for Recommended Change

(Signature)  Date: 4/2/14

II. Curriculum Committee Action:

☒ Approved  ☐ Disapproved  ☐ Returned for Recommended Change

Chairperson: (signature)  Date: 4/11/2014

III. Faculty Senate Action:

☒ Approved  ☐ Disapproved  ☐ Returned for Recommended Change

Senate President (signature):  Date: 4/11/14

IV. Provost/Vice President Academic Affairs (not required for courses):

☐ Approved  ☐ Disapproved  ☐ Returned for Recommended Change

Provost/VPAA (Signature):  Date: 4/13/14

V. President’s Action (not required for courses):

☐ Approved  ☐ Disapproved  ☐ Returned for Recommended Change

President (Signature):  Date: 

Final Faculty senate Approved form as of 9/15/06

WWW.KYSU.EDU

Kentucky State University is an equal educational and employment opportunity/affirmative action institution
ACADEMIC UNIT: Mathematics

DATE PREPARED: March 25, 2014

PRIMARY AUTHOR(S): Robert Hebble and Karen Heavin

ACADEMIC DISCIPLINE

FACULTY APPROVED: [Signature]

(Committee Chairperson's Signature)

3/26/14

(Date)

CHAIRPERSON/DEAN APPROVED: [Signature]

(Chairperson's/Dean Signature)

3/26/14

(Date)

1. NEW COURSE NUMBER: MAT 176

2. NEW COURSE TITLE: Accelerated College Algebra

3. CAPSULE STATEMENT OF COURSE CONTENT FOR CATALOG:
Prerequisite: A grade of 'C' or better in MAT 096 or appropriate score on ACT, SAT or placement test. This course is designed to be an efficient combination of Intermediate Algebra and College Algebra. Topics includes manipulation of monomials, polynomials rational and radical expressions; solving equations and inequalities, including linear, rational, quadratic, absolute value, exponential and logarithmic; developing problem solving techniques; an introduction to functions, variation, the algebra of functions and their graphs; study of properties and graphs of polynomial and rational functions, as well as exponential and logarithmic functions; techniques in graphing functions, including use of a graphing calculator and regression analysis; reading/interpreting graphs of functions and applications.

4. DESCRIPTION OF COURSE CONTENT FOR COURSE SYLLABUS:

5. PREREQUISITES: an ACT math subscore of 19 (or better),
or an SAT math subscore of 460 (or better),
or a grade of 'C' or better in MAT 096,
or a KYOTE College Readiness placement score of 22 (or better)

6. REQUIRED COURSE: ______ Yes    _X_ No

Final Faculty Senate Approved Form as of 10/4/89
7. CREDITS: (a) Number 5
   (b) Variable credit Explanation:
   (c) Will course be repeatable for credit: __Yes  X__No
   (d) Grading systems permitted: X A-F  ____ P/F  ____ Credit/No Credit
      Exceptions:

8. Course Level:  X  Elementary
                 ___ Intermediate
                 ___ Intermediate/Advanced
                 ___ Advanced

9. CROSSLISTING DEPARTMENTS (attach supporting letters):

10. SCHEDULING PLAN:  X  Each semester
                        ___ Annually
                        ___ Biennially
                        ___ Occasionally

11. STARTING WITH:
    X  Fall,  ___ Spring,  ___ Summer:  2014  Academic Year

12. IS THIS A “SPECIAL TOPICS” COURSE?  ___ Yes  X  No

13. EXPLANATION OF NEED FOR THE SPECIFIC COURSE:
MAT 115 (College Algebra) is the current math requirement for many KSU majors. However, many incoming KSU students need to take MAT 097 (Intermediate Level Algebra) due to their mathematics placement scores. This means students must spend a semester (or more) on non-college-credit-bearing work before taking MAT 115. This proposed course will be an efficient mixing of MAT 097 and MAT 115 that is similar in content and structure to the successful dual credit bearing course being delivered to area high school students in the Access to Algebra Program. If successful, this course should help many students move more efficiently through their programs.
14. RELATIONSHIP TO OTHER LIKE COURSES IN THE DISCIPLINE/UNIVERSITY: The proposed MAT 176 is a streamlined amalgamation of MAT 097 and MAT 115. It is hoped that programs currently requiring MAT 115 will allow it to serve as the math requirement for their majors.

15. COURSE WHICH MAY BE DROPPED AS A RESULT OF THIS PROPOSAL: MAT 097 (Intermediate Level Algebra)

16. INSTRUCTIONAL STAFF (if non-faculty, attach Vita):

Faculty in the Mathematics and Physics Unit.

17. COURSE SYLLABUS AND TEXT REFERENCE:
Please attach. Include methods the instructor will use to evaluate student performance and a bibliography of available and needed references for Blazer Library.
KENTUCKY STATE UNIVERSITY
Division of Mathematics and Sciences
Department of Mathematics and Physics
Course: MAT176
Course Title: Accelerated College Algebra Fall 2014 (5 credit hours)

Syllabus
This is the course syllabus for the Accelerated College Algebra course MAT176, Fall 2014 at Kentucky State University. This course can be used to satisfy the general education mathematics requirement for all Kentucky public universities as well as a majority of U.S. public and private colleges and universities as well. This course will also provide a solid grounding in algebra in preparation for further mathematical studies. Further information about the course is available below. Students enrolled in this course should regularly refer to the syllabus and the announcements in the course (web-based) homework system.

PROFESSOR:  
SEMINTER: Fall 2014  
OFFICE:  
CLASS TIME:  
OFFICE PHONE:  
CLASSROOM:  
FAX: (502) 597-6068  
OFFICE HOURS:  
E-MAIL:XYZ Homework website: www.xyzhomework.com

---

I. MISSION STATEMENTS:
The Objectives and Learning Outcomes of this course directly support the Mission of the University, College, and Division, and may be found at: www.kysu.edu/about; www.kysu.edu/academics/collegesAndSchools/default.htm; http://www.kysu.edu/academics/collegesAndSchools/collegeofmathematicsandscience/technologyandhealth/default.htm; http://www.kysu.edu/academics/collegesAndSchools/collegeofmathematicsandscience/technologyandhealth/mathematicsandsciences/default.htm; http://www.kysu.edu/academics/collegesAndSchools/collegeofmathematicsandscience/technologyandhealth/mathematicsandsciences/mathematicsandphysics.htm

---

II. NOTICE TO STUDENTS WITH DISABILITIES:
Any student who requires an accommodation due to a documented disability may contact the Disability Resource Center (DRC) at (502) 597-5076, or visit Hill Student Center, Suite 220C, to arrange for reasonable accommodations. The student is required to obtain verification from the DRC and deliver the signed DRC document to the instructor specifying the accommodations. The student is encouraged to complete this process at the beginning of the semester since an approval for accommodations is not retroactive. The accommodations become effective upon receipt of the DRC approval by the faculty member from the student. Additional information concerning the DRC and accommodations can be found at http://www.kysu.edu/about/divisions/studentAffairsAndEnrollment/disabilityResourceCenter.htm.

---

III. COURSE DESCRIPTION – COURSE RATIONALE:
Prerequisite: MAT 096 or ACT math score of 19 or SAT math score of 460 or KYOTE college readiness placement score of 22 or higher. Students who do not meet these criteria will automatically be dropped from the course.

Description: This course satisfies the MAT115 requirement. The curriculum combines topics from both MAT097 and MAT115. Topics includes manipulation of monomials, polynomials rational and radical expressions; solving equations and inequalities, including linear, rational, quadratic, absolute value, exponential and logarithmic; developing problem solving techniques; an introduction to functions, variation, the algebra of functions and their graphs; study of properties and graphs of polynomial and
rational functions, as well as exponential and logarithmic functions; techniques in graphing functions, including use of a graphing calculator and regression analysis; reading/interpreting graphs of functions and applications.

Rationale:
1. Algebra is one of the most efficient disciplines for developing the analytical mind.
2. The mathematical techniques of algebra facilitate the planning of daily life affairs (e.g., time management, budgeting, etc.) and provide students with the foundation needed for calculus and more advanced undergraduate mathematics courses.
3. Moreover, algebra is the basis of study of mathematics and the sciences.

IV. COURSE OBJECTIVES:
College Algebra should teach students how to apply mathematics in different contexts, to abstract and generalize, and to analyze quantitatively and qualitatively. Students succeeding in this class should be able to:
✓ understand set and interval notation and operations on sets.
✓ solve a variety of linear and quadratic equations and inequalities, including absolute value.
✓ use the rules of exponents appropriately, both integer and rational.
✓ understand the concept of a function verbally, graphically, numerically and algebraically.
✓ understand the algebra of functions, composite functions and the inverse functions.
✓ work with polynomials, polynomial functions, and their graphs.
✓ use transformations of functions to graph new functions from old.
✓ use the quadratic formula to determine real and complex zeros of a quadratic function.
✓ use graphs and graphing calculators to solve equations and inequalities.
✓ understand the concept of increasing and decreasing function on an interval.
✓ work with rational expressions, rational functions, and their graphs.
✓ determine limits at infinity and infinite limits graphically, numerically and algebraically.
✓ understand the properties of the exponential and logarithmic functions, focusing on base 10 and base e.
✓ solve exponential and logarithmic equations.
✓ apply tools and concepts to problem solving applications and modeling for linear, quadratic and variation models.

Program learning goals and program learning outcomes for mathematics include:
✓ Problem Solving: Students will develop mathematical problem solving skills.
✓ Applications: Students will apply their mathematical skills to analyze and model real world situations.
✓ Communication: Students will communicate correctly using the language of mathematics both orally and in writing.
✓ Technology Usage: Students will use appropriate technology to investigate and solve problems in mathematics and related areas.

V. STUDENT LEARNING OBJECTIVES/OUTCOMES:
These course learning outcomes match up with the following University’s Liberal Studies Learning Outcomes:

After completing the general education requirements at Kentucky State University, students will be expected to demonstrate the ability:
1. To communicate accurately and effectively in writing and speech.
2. To think critically and analytically. Students must be able to use reason and logic to understand ideas, appreciate nuances and recognize ambiguities, and formulate their own positions on issues.
4. To use the methods of mathematical and scientific inquiry. Students must be able to use the methods of mathematical and scientific inquiry to analyze, evaluate, and synthesize information.
9. To integrate knowledge from a variety of disciplines, cultures, and historical contexts from the ancient to the modern world.
12. To use computer technology to enhance their educational experiences and to develop skills useful throughout their lives and in their careers.

Kentucky State Wide General Education Student Learning Outcomes
✓ Interpret information presented in mathematical and/or statistical forms;
✓ Illustrate and communicate mathematical and/or statistical information symbolically, visually and/or numerically;
✓ Determine when computations are needed and to execute the appropriate computations;
✓ Apply an appropriate model to the problem to be solved;
✓ Make inferences, evaluate assumptions, and assess limitations in estimation modeling and/or statistical analysis.

This course specifically introduces concepts and skills included in Kentucky State University Mathematics Program Learning Outcomes. Students will be expected to demonstrate:
O 1: Problem Solving: Students will develop mathematical problem solving skills.
O 2: Applications: Students will apply their mathematical skills to analyze and model real world situations.
O 3: Communication: Students will communicate correctly using the language of mathematics both orally and in writing.
O 5: Technology Usage: Students will use appropriate technology to investigate and solve problems in mathematics and related areas.

Note: If you have already bought an access code from xytextbooks last semester for any courses (MAT097), you DO NOT NEED to purchase a new one. You just need to enroll the new course by using the following code access (####: MAT176 Fall 2014).

Supplemental websites: http://www.khanacademy.org/

VII. BLACKBOARD: Announcements, staff information, and weekly grades will be posted on the course Blackboard. Students are expected to check the course Blackboard regularly. Weekly grades will be tracked through Course Signals. Daily course grades will be tracked using the XYZ homework gradebook.

VIII. COURSE SPECIFIC REQUIREMENTS, EXPECTATIONS, POLICIES:
Academic Honesty: Please see the section on “Academic Honesty” in the 2013-2014 KSU catalog or student handbook. Any violation of academic honesty will not be tolerated. Students caught cheating on any homework, quiz, exam or any other assignment will automatically receive a zero points for the assignment. No electronic devises other than a scientific calculator are allowed during any exams. Use of such devises will result in zero points on the exam.

Cell phones and other electronic devices other than scientific calculators are not allowed: You are expected to silence and put away cell phones and other electronic devices during class time. Any use of these devices during class will result in a loss of attendance points for that day and possible dismissal from class. The only exception will be at the very beginning of during the question and answer portion to look up online homework questions. You must have a scientific calculator for this class but you may not use any cell phone or computer based calculators.

Study Time: Students are expected to study mathematics at least 2 hours outside of class for every hour of class meeting. Therefore, you should spend a minimum of 6 hours each week studying MAT 176!! Bring all the pertinent material such as paper, pencil, textbook, calculators, etc., to every class.

Help and instruction outside of class:
• If you are having difficulty with the course material, I strongly encourage you to first meet with me during my office hours. I have regularly scheduled office hours as well as additional office hours by appointment for individual help.

• The online homework has a messaging feature which will allow you to contact me via text at any time concerning questions on homework problems. This feature has been extremely effective in aiding student learning during past semesters.

• Smart thinking is available on Blackboard 24/7 for free online tutoring of all college algebra topics. This program is available for all Kentucky State University students. This program has had a very positive impact on the understanding and scores of students taking advantage of this program during past semesters. DO NOT rely on algebra based solving sites to do your thinking for you.

• Students are also encouraged to seek tutoring help in the Academic Center for Excellence or ACE for additional help. There are trained math tutors staffing the center M-Th 8am-9pm; Friday 8am-4:30pm; and Sat 11am-3pm. The Academic Center for Excellence, ACE, is located in room 110 of the Carl Hill Student Center. All tutoring is free of charge. You can go to the ACE website listed below to find tutoring schedules and other resources. You can also access this website on Blackboard under the ACE button on the menu. http://www.kysu.edu/academics/academicSupport/ace/default.htm

Attendance: You are required to attend every class. Roll will be taken every day. If you are more than 5 minutes tardy or if you leave early without notifying me in advance this will count as an unexcused half absence. If illness or some other legitimate reason prevents you from being in class, you must contact me and/or report your absences to ASC to have the absence excused. Assignments may not be made up for unexcused absences and will receive zero points. You must contact me immediately when you miss class due to illness, death in the family, court dates, or other similar reasons. Unexcused absences on exam days will receive a zero. Please let me know if you will be absent for a University function such as band or athletics as I am not always informed of these university functions. Allowances for makeup assignments will be made for work missed due to illness, court dates or other legitimate reason; no allowance will be made for cuts. Students with more than 3 unexcused absences will not be allowed to make up exams. Contact me immediately when you find yourself legitimately missing class. You are expected to check the syllabus and XYZ for assignments to prepare for class on the day that you return.

IX. EVALUATION PROCEDURES:
Grading Policy: The course will be graded as follows:

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Four in class exams</td>
<td>55%</td>
</tr>
<tr>
<td>Homework</td>
<td>10%</td>
</tr>
<tr>
<td>Quizzes</td>
<td>10%</td>
</tr>
<tr>
<td>Attendance</td>
<td>5%</td>
</tr>
<tr>
<td>Final Exam</td>
<td>20%</td>
</tr>
<tr>
<td>Total</td>
<td>100%</td>
</tr>
</tbody>
</table>

Homework: For all assignments, knowing what to do is important; knowing why to do it is critical. All homework will be scored online and credit earned only for correct answers. Up to 6 attempts are allowed for each problem and all problems can be reattempted until the due date. Assignments can be reviewed after they are due for further study but answer will no longer be accepted without a late pass. Late passes must be activated BEFORE the assignment is due and late homework will receive a 30% score reduction. You may also message your instructor and request to have late homework opened. Several homework assignments will include 1 or 2 hand graded questions that will be due at the beginning of class. I will spend the first 10 minutes of every class going over questions on the homework. Three or 4 homework assignments will be dropped at the end of the semester.

Quizzes: Weekly quizzes will be given using the XYZ online homework program. The quizzes will be open for approximately 5 days. Again, use the messaging feature for instructor help. The purpose behind all quizzes
is to constantly assess and correct your understanding of the material covered in the homework. If you are having trouble on quiz problems, find similar homework problems and continue to work these problems until you understand the problem.

**Exams:** There will be 4 hourly tests and one final exam. Students will be able to retake one exam providing they meet specified requirements. Students who miss one exam and have contacted me will be able to replace the missing grade with the percentage from the portion of the final which covers similar material. Students who do not miss any exams will have the opportunity to replace one exam grade with a better percentage from the portion of the final that covers similar material. The final exam is comprehensive. *You must bring something to write with to every exam!!*

**Important dates:**
August 16, Saturday — Classes begin at Kentucky State University
August 22, Friday — Last day to add/change registration for refund
September 1, Monday — Academic holiday (Labor Day)
October 15, Wednesday — Midterms Grades Due
October 16 – 17, KSU Fall Break
December 5, Friday — Last Day of Classes
December 8 – 12, Monday thru Friday — Final examinations
Student Acknowledgment of Receipt of Course Information

My signature below indicates that I have received a course syllabus for the following course, MAT176, and I have been notified that the common policies for all courses at KSU can be found throughout the University Catalogue at:

http://www.kysu.edu/about/divisions/studentAffairsAndEnrollment/enrollmentManagement/registrar/KentuckyStateUniversityCatalogue.htm

I agree to read these documents, and I agree to sign and deliver this copy of the “Student Acknowledgment” form within two (2) weeks of the start of the semester. I understand that the policies contained within these documents apply directly to me and to all students in the class. **I agree to abide by these policies, and recognize that not abiding by these policies could result in dismissal from this class** and/or affect my standing as a student at KSU as per Section 2.C. of the Student Handbook and Section XIX.G.1. of the University Catalogue.

Name (please print): ____________________________________________

CWID: _______________________________________________________

Signature: ____________________________________________________

Date: _________________________________________________________

**Contact information** (please PRINT clearly):

Local Address: ________________________________________________

Local Phone: __________________________________________________

E-Mail: ________________________________________________________
CURRICULUM COMMITTEE
NEW COURSE PROPOSAL

ACADEMIC UNIT: Mathematics

DATE PREPARED: March 25, 2014

PRIMARY AUTHOR(S): Drs. Robert Mania and Andy Martin

ACADEMIC DISCIPLINE FACULTY APPROVED:  
(Committee Chairperson’s Signature)  

CHAIRPERSON/DEAN APPROVED:  
(Chairperson’s/Dean Signature)  

1. NEW COURSE NUMBER: MAT 172

2. NEW COURSE TITLE: Accelerated Contemporary Mathematics

3. CAPSULE STATEMENT OF COURSE CONTENT FOR CATALOG:
Prerequisite: MAT 095 with grade of C or higher or appropriate scores on ACT, SAT, or mathematics placement test. This course develops problem-solving and mathematical skills through a sequence of applied topics. Topics include mathematical finance, probability and statistics, and linear and quadratic growth model. The beginning algebra required for each topic will be covered with the topic.

4. DESCRIPTION OF COURSE CONTENT FOR COURSE SYLLABUS:
Accelerated Contemporary Mathematics is designed to increase the student’s abilities to appreciate, understand, and use mathematical problem-solving tools, and to communicate their efforts to an educated audience. The course comprises five topics:
   1. Problem Solving (includes percents, ratios and proportions)
   2. Finance (includes order of operations, substitution into formulas, exponents, like terms, radicals)
   3. Describing Data (includes graphing, ordered pairs, reading graphs, intercepts)
   4. Statistics (includes reading and making graphs, dependent and independent variables, percents, averages)
   5. Growth Models (includes equations of a line, slope and intercept, graphing linear and quadratic equations)

Note: All topics include use of the calculator and relevant websites. Other topics can be covered as approved by the math faculty. Finance and statistics are the two topics that must be covered. The required algebra topics needed for each section will be covered in the appropriate sections.

Final Faculty Senate Approved Form as of 10/4/89
5. PREREQUISITES: an ACT math sub score of 15 (or better) 
or an SAT math sub score of 350 (or better) 
or a grade of ‘C’ or better in MAT 095 
or a KYOTE Placement Exam score of 11 (or better)

6. REQUIRED COURSE: _____ Yes   _X_ No

7. CREDITS:  (a) Number 4

(b) Variable credit Explanation: ________________________________

(c) Will course be repeatable for credit: ___Yes   _X_ No

(d) Grading systems permitted: _X_ A-F   ___ P/F   ___ Credit/No Credit

Exceptions: ________________________________

8. Course Level: _X_ Elementary

     ___ Intermediate

     ___ Intermediate/Advanced

     ___ Advanced

9. CROSSLISTING DEPARTMENTS (attach supporting letters):

10. SCHEDULING PLAN: _X_ Each semester

     ___ Annually

     ___ Biennially

     ___ Occasionally

11. STARTING WITH:

     _X_ Fall, ___ Spring, ___ Summer: 2014 Academic Year

12. IS THIS A “SPECIAL TOPICS” COURSE?  ____ Yes  _X_ No
13. **EXPLANATION OF NEED FOR THE SPECIFIC COURSE:**
MAT 111 (Contemporary Mathematics) is the current math requirement for all KSU majors which do not require MAT 115 (College Algebra). However, most incoming students needing MAT 111 cannot directly take it, but must first earn a 'C' or better in the developmental course MAT 096 (Beginning Algebra). This means students must spend a semester (or more) on non-college-credit-bearing work before taking MAT 111. This proposed course will use a “just in time” approach to the prerequisite algebra, folding the MAT 096 topics into MAT 111. In addition, only the algebra needed for the topics will be discussed. If successful, this should help students move more efficiently through their programs.

14. **RELATIONSHIP TO OTHER LIKE COURSES IN THE DISCIPLINE/UNIVERSITY:**
The proposed MAT 172 is a streamlined amalgamation of MAT 096 and MAT 111. It is hoped that programs currently requiring MAT 111 will allow it to serve as the math requirement for their majors.

15. **COURSE WHICH MAY BE DROPPED AS A RESULT OF THIS PROPOSAL:**
MAT 096 (Beginning Algebra)

16. **INSTRUCTIONAL STAFF (if non-faculty, attach Vita):**
Faculty in the unit of mathematics and physics.

17. **COURSE SYLLABUS AND TEXT REFERENCE:**
Please attach. Include methods the instructor will use to evaluate student performance and a bibliography of available and needed references for Blazer Library.
Kentucky State University  
Division of MASC  
Department of Mathematics  
Course: 172  
Course Title: Accelerated Contemporary Mathematics (4 credit hours)  
Syllabus

PROFESSOR:  
OFFICE:  
OFFICE PHONE:  
FAX:  
E-MAIL:  

SEMEREST:  
CLASS TIME:  
CLASSROOM:  
OFFICE HOURS:  

I. MISSION STATEMENTS:  
The Objectives and Learning Outcomes of this course directly support the Mission of the University, College, and Division, which may be found at:  
www.kysu.edu/about  
www.kysu.edu/academics/collegesAndSchools/collegeofmathematicssciencestechnologyandhealth/  
www.kysu.edu/academics/collegesAndSchools/collegeofmathematicssciencestechnologyandhealth/mathematicsandsciences/  
www.kysu.edu/mathandphysics

II. NOTICE TO STUDENTS WITH DISABILITIES:  
Any student who requires an accommodation due to a documented disability may contact the Disability Resource Center (DRC) at (502) 597-5076, or visit Hill Student Center, Suite 220C, to arrange for reasonable accommodations. The student is required to obtain verification from the DRC and deliver the signed DRC document to the instructor specifying the accommodations. The student is encouraged to complete this process at the beginning of the semester. Since an approval for accommodations is not retroactive, the accommodations become effective upon receipt of the DRC approval by the faculty member from the student. Additional information concerning the DRC and accommodations can be found at  
www.kysu.edu/about/divisions/studentAffairsAndEnrollment/disabilityResourceCenter.htm

III. COURSE DESCRIPTION – COURSE RATIONALE:  
Kentucky State University recognizes that all educated individuals should possess some degree of mathematics literacy and so requires that all Kentucky State University students complete at least three credit hours of mathematics. This course is designed to meet that requirement. Students will have opportunities to acquire mathematical and problem-solving skills while being introduced to the beauty and power of mathematics through the study of a variety of mathematical applications.

IV. COURSE OBJECTIVES:  
Accelerated Contemporary Mathematics is designed to increase the student’s abilities to appreciate, understand, and use mathematical problem-solving tools, and to communicate their efforts to an educated audience. The course comprises five topics:

1. Problem Solving (includes percents, ratios and proportions)
2. Finance (includes order of operations, substitution into formulas, exponents, like terms, radicals)
3. Describing Data (includes graphing, ordered pairs, reading graphs, intercepts)
4. Statistics (includes reading and making graphs, dependent and independent variables, percents, averages)
5. Growth Models (includes equations of a line, slope and intercept, graphing linear and quadratic equations)

Note: All topics include use of the calculator and relevant websites. Other topics can be covered as approved by the math faculty. Finance and statistics are the two topics that must be covered. The required algebra topics needed for each section will be covered in the appropriate sections.
V. STUDENT LEARNING OBJECTIVES/OUTCOMES:
This course specifically introduces concepts and skills included in Kentucky State University Liberal Studies Learning Outcomes and Kentucky General Education Student Learning Outcomes that state students will be expected to demonstrate the ability:

Kentucky State University Liberal Studies Learning Outcomes:
- *To communicate accurately and effectively in writing and speech.* (Liberal Studies Outcome #1)
- *To think critically and analytically.* (Liberal Studies Outcome #2)
- *To use the methods of mathematical and scientific inquiry.* (Liberal Studies Outcome #4)

Kentucky General Education Student Learning Outcomes
- *interpret information presented in mathematical and/or statistical forms;*
- *illustrate and communicate mathematical and/or statistical information symbolically, visually and/or numerically;*
- *determine when computations are needed and to execute the appropriate computations;*
- *apply an appropriate model to the problem to be solved;*
- *make inferences, evaluate assumptions, and assess limitations in estimation modeling and/or statistical analysis.*


VII. BLACKBOARD: Announcements, course information, course material, and take home quizzes, projects, and exams will be posted on Blackboard. Students are expected to check Blackboard daily. During the first week of class, the instructor will show the students how to access Blackboard, and will remind the students throughout the term to check it often.

VIII. COURSE SPECIFIC REQUIREMENTS, EXPECTATIONS, POLICIES:
Student responsibilities;

Bring all pertinent material such as paper, pencil, textbook, calculators, etc., to each class.

Study Time: Students are expected to study mathematics at least 2 hours outside of class for every hour of class meeting. Therefore, you should spend a minimum of 6 hours each week studying MAT 111!!! Academic Honesty. Please see the section on “Academic Honesty” in the 2010-2011 KSU catalog or student handbook. Any violation of academic honesty will not be tolerated.

Cell Phone Policy: Cell phones should be off or on vibrate, and put away during class. Computers may not be used during class unless the instructor has made a specific exception in advance. Headphones, earbuds, and music playing devices may NOT be worn or used during class. No exceptions!!

Calculator: A scientific calculator is required. Graphing calculators are allowed, but are not needed.

Deadlines: Honor all deadlines. You will be penalized for turning in work late. (But there will never be a penalty for turning in work early.)
IX. EVALUATION PROCEDURES:

The course grade is based on class participation, homework, tests, projects, and the final examination.

<table>
<thead>
<tr>
<th>Component</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Three Tests</td>
<td>300</td>
</tr>
<tr>
<td>Participation, homework, projects</td>
<td>200</td>
</tr>
<tr>
<td>Final Exam</td>
<td>150</td>
</tr>
<tr>
<td>Total points</td>
<td>750</td>
</tr>
</tbody>
</table>

Grading Scale
- 90% - 100% A
- 80% - 89% B
- 70% - 79% C
- 60% - 69% D
- Below 60% F

Student Acknowledgment of Receipt of Course Information

My signature below indicates that I have received a course syllabus for the following course, **MAT 111**, and I have been notified that the common policies for all courses at KSU can be found throughout the University Catalogue at:

http://www.kysu.edu/about/divisions/studentAffairsAndEnrollment/enrollmentManagement/registration/Kentucky+State+University+Catalogue.htm

I agree to read these documents, and agree to sign and deliver this copy of the “Student Acknowledgment” form within two (2) weeks of the start of the semester. I understand that the policies contained within these documents apply directly to me and to all students in the class. I agree to abide by these policies, and recognize that not abiding by these policies could result in dismissal from this class and/or affect my standing as a student at KSU as per Section 2.C. of the Student Handbook and Section XIX.G.1. of the University Catalogue.

Name (please print): __________________________________________
CWID: ______________________________________________________
Signature: __________________________________________________
Date: ________________________________________________________

Contact information (please PRINT clearly):

Local Address: _______________________________________________
Local Phone: ________________________________________________
E-Mail: ____________________________________________________