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| **Course Title/Number** | Math 127/130 |
| **Semester/Year** | Fall 2018 |
| **Days/Time** | Daily 11:36 a.m. to 12:24 p.m. |
| **Location** | Wyoming East High School |
| **Instructor** | Kerri C. Lookabill |
| **Office** | Room 1060-C |
| **Phone** | 304-294-5200 |
| **E-Mail** | klookabill@k12.wv.us |
| **Office Hours** | Daily 9:00 to 9:45 a.m. |
| **University Policies** | By enrolling in this course, you agree to the University Policies listed below. Please read the full text of each policy by going to [www.marshall.edu/academic-affairs](http://www.marshall.edu/academic-affairs) and clicking on “Marshall University Policies.” Or, you can access the policies directly by going to [www.marshall.edu/academic-affairs/policies/](http://www.marshall.edu/academic-affairs/policies/). Academic Dishonesty/Excused Absence Policy for Undergraduates/Computing Services Acceptable Use/Inclement Weather/Dead Week/Students with Disabilities/Academic Forgiveness/Academic Probation and Suspension/Academic Rights and Responsibilities of Students/Affirmative Action/Sexual Harassment |

**Course Description: From Catalog**

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| Math 127/130 is a brief but careful review of the main techniques of algebra. Polynomial, rational, exponential, and logarithmic functions will be studied. Graphs, equations, inequalities, and sequences will also be studied. |

**The table below shows the following relationships: How each student learning outcome will be practiced and assessed in the course.**

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| **Course student learning outcomes** | **How students will practice each outcome in this course** | **How student achievement of each outcome will be assessed in this course** |
| Students will | Individual homework assignments, in-class group work, study guides | Quizzes, tests, posters/presentations |

**Required Texts, Additional Reading, and Other Materials**

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| **College Algebra (2nd Edition) by Sisson published by Hawkes Learning**  **ISBN 978-1-932628-29-6** |

**Course Requirements/Due Dates**

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| All upcoming assignments will be posted on classroom board as well as in Livegrades. |

**Grading Policy**

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| 90-100 A  80-89 B  70-79 C  60-69 D  Below 60 F |

**Attendance Policy**

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| Students will follow attendance policy as set by Wyoming County Schools |

**Topics Covered in Math 127/130**

Linear (and inequalities) including absolute value and systems

* + Quadratic with real solutions
  + Rational
  + Radical
  + Exponential & logarithmic

Basic functions

* Definitions of domain, range, function
* Graphing lines
* Applications of linear & quadratic functions & other functions
* Transformations
* Identifying symmetry
* Composition of functions & inverse functions

Polynomial and Rational Functions

* Polynomial long division
* Remainder & factor theorems
* Basic graph sketching including end behavior
* Intermediate value theorem
* Equations of vertical & horizontal asymptotes

Exponential and Logarithmic Functions

* Basic properties of exponential functions & their graphs
* Basic properties of logarithmic functions & their graphs
* Applications of exponential & logarithmic functions i.e. population growth/decay, compound interest, laws of cooling, Richter scale, etc)