AP Computer Science
Course Outline
Fall 2017

Teacher: Dr. Paul Bailey

Email: paul.bailey@basised.com

Book: *Java - An Introduction to Problem Solving & Programming*, 5$^{\text{th}}$ edition, Savitch and Carrano, 2009

Grade Components

Projects:	50%
Quizzes:	20%
Exams:	30%

Course Outline

Week	Topic	Sections
Week 1	Greenfoot and Bases	Notes
Week 2	Greenfoot and Logic	Notes
Week 3	Java and Data	Notes, 1
Week 4	Variables and Expressions	2
Week 5	Flow Control: Branching	3
Week 6	Flow Control: Looping	4
Week 7	Classes and Methods	5.1 - 5.2
Week 8	Objects and Encapsulation	5.3, 6.1
Week 9	Statics and Overloading	6.2 - 6.7
Week 10	Arrays	7.1 - 7.3, 7.5
Week 11	Sorting and Searching	7.4
Week 12	Sorting and Searching	7.4
Week 13	Polymorphism	8.1
Week 14	Inheritance	8.2
Week 15	Abstraction	8.3
Week 16	Exceptions	9
Week 17	Text Streams	10.1 - 10.3
Week 18	Binary Streams	10.4 - 10.5
Week 19	Recursion	11
Week 20	Array Lists	12.1
Week 21	Linked Lists	12.2
Week 22	Linked Lists	12.2
Week 23	Swing	
Week 24	Swing	
Week 25	Swing	
Week 26	Numerical Analysis	
Week 27	Numerical Analysis	
Week 28	Numerical Analysis	
Week 29	AP Review	
Week 30	AP Review	
Week 31	AP Review	
Week 32	AP Review	