Curriculum Committee Minutes
November 29, 2017

Meeting was called to order at 5:00 p.m. at the Pana High School Library.

Meeting was called to order by Jason Bauer

Members present: Ellis, Heath Strom, Wysong, Zueck, Hahnenkamp, Mayhall, Pieper, Heather Strom, Dameris, Dorn, Anderson, Deere, McClure, and Osborn.
Members absent: McRoberts, Hankins, Duez, and Carlson
Superintendent Present: Yes
Visitors: None

The committee discussed the following:

1. *Approval of the Minutes from November 30, 2016.* Committee members reviewed the minutes from November 30, 2016. It was noted that there was an error under item 5 on the previous meetings minutes. Media 1 & 2 was not eliminated. Minutes should have reflected that Panther Publishing was added as a course for 2017-2018. Motion to approve minutes by: Ellis, Seconded by: Wysong.

2. *Elementary Reading Series* – A discussion was held about a new Elementary Reading Series. The Elementary teachers are exploring materials that may lead to a future recommendation of a new reading series. No action taken at this time.

3. *K-5 Math Curriculum (Go Math vs. My Math)* – There was a discussion about Elementary Math Curriculum to determine if the current My Math series that is in place contains enough rigor. This was brought up due to low PARCC scores and a perceived lack of student preparedness. No recommendation to change at this time.

4. *2018-2019 High School Course Description/Curriculum Changes* – Mrs. Strom provided an update on the proposed changes submitted to Ms. McRoberts. See attached document. Motion to approve changes by: Osborn, Seconded by: Hahnenkamp.

A motion was made by Osborn and seconded by McClure to adjourn the meeting of November 29, 2017 at 5:47 p.m.

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Member Member

High School Course Description/Curriculum Changes

Business

1) Remove Panther Publishing from the course description book.

2) Change the description of Media 1

Media 1 Create your own music video. Record and edit sound files in Audacity. Explore Internet basic and Google docs.

In Media 1 students will use a variety of digital tools to collaborate and express ideas.

English

1) The English course descriptions will now include a statement that reads *Placement will be based upon MAP scores, teacher recommendation and prior English grades.*

2) Change description of English II CP

ENGLISH II CP *01002A000*
(10) 2 semesters
Prerequisite: Must have a "B" average or written permission from freshman English teacher
Meets 1.0 English credit

This course is designed to prepare students for English III CP. It covers grammar, speaking, and analysis of literature in a more independent and writing-intensive manner than English II.

ENGLISH II CP *01002A000*
(10) 2 semesters
Prerequisite: Must have a "B" average or written permission from freshman English teacher
Meets 1.0 English credit

This course is designed to prepare students for English III CP. It covers grammar, speaking, and analysis of literature in a more independent and writing-intensive manner than English II. This course covers an advanced review of the parts of speech, sentence parts, and correct usage in addition to an in-depth study of verbal phrases and dependent clauses. It includes systematic coverage of vocabulary and speech skills. Reading comprehension is emphasized in the study of short stores, drama, and the novel. Students experience Shakespeare with a study of Julius Caesar. Students will compose essay(s) and a research paper in standard MLA format. Placement will be based upon MAP scores, teacher recommendation, and prior English grades.

Industrial Technology

1) Replacing Moonbuggy

MOONBUGGY *21049A000*
(9, 10, 11, 12) 2 semesters
Prerequisite: None
Meets 1.0 Elective credit

Moonbuggy is a NASA outreach program that will provide instruction on: Computer Aided Design, Computer Aided Manufacturing, 3D printing of designs and models. This also includes Lathe and Mill machining of chromoly steel and aluminum parts, and TIG welding process of thin steel. Included in this program is the building of full prototype designs, the next year's buggy. This is preparation for competing in the NASA Human Exploration Rover Challenge in Huntsville, Alabama.

SOLAR CAR ENGINEERING *21049A000*
(9, 10, 11, 12) 2 semesters
Prerequisite: None though accounting and multi-media skills is a plus
Meets 1.0 Elective credit

The Solar Car Challenge is the top project-based STEM Initiative helping motivate students in Science, Engineering, and Alternative energy. Instruction includes: Computer Aided Design (mechanical and electrical), Computer Aided Manufacturing, 3D printing of designs and models, solar panel construction, wiring, motor control and energy management, hydraulic and manual brake systems. This also includes hands-on lathe and mill machining of chromoly steel and aluminum parts, TIG welding and construction of full prototype working designs for this and next year's, road legal car. Prior multi-media and accounting skills will enhance the experience if planning on participating in Solar Care Challenge in Texas.

Mathematics

1) Change from Career Mathematics to Your World Math

CAREER MATHEMATICS *02151A000*
(11, 12) 2 semesters
Prerequisite: Algebra 1 and Applied Geometry or Geometry: instructor approval
Meets 1.0 Mathematics credit

This course is designed for students who have struggled in Algebra 1 and Geometry. It is designed to teach students everyday math skills. Topics include: balancing a checkbook, creating a budget, buying a car or home, personal record keeping and paying taxes. Although Consumer Mathematics course focuses on financial issues, students are still expected to be able to perform calculations including rational numbers, measurement, basic statistics, ratio and proportion, basic geometry, formulas, and simple equations. *This course is not designed for those students completing Algebra II and hoping to fulfill their 3rd year of Mathematics.*

REAL WORLD MATH *02151A000*
(11, 12) 2 semesters
Prerequisite: Algebra and Applied Geometry or Geometry: instructor approval
Meets 1.0 Mathematics credit

This course is designed for students who have struggled in Algebra 1 and Geometry but are in need of a third year of math and/or seniors who desire a fourth year of math. The class offers hundreds of real-world examples and applications, both in the book and online. Topics include: problem solving, critical thinking, estimation, mathematical modeling, Algebra, personal finance, taxes, savings, investing, interest, basic set theory, Real Number system, measurement, geometry, probability, statistics, and logic. *This course is not designed for those students completing Algebra II and hoping to fulfill their 3rd year of Mathematics.*

Science

1) Change in course requirements in the following courses:

Physical Science	"C" average in 8th/9th grade science and completion of Pre-Algebra
	"C" average in 8th grade science and "B" average in JH Pre-Algebra or completion of Earth Science and Algebra 1A
Biology	Successful completion of Ag Science, Earth Science, or Physical Science
	Successful completion of Ag Science or Physical Science
Chemistry	"C" average in both Physical Science and Algebra 1
	"C" average in Physical Science and "B" average in Accelerated Algebra
Concepts of Chemistry	"C" average in Chemistry
	"B" average in Chemistry
Physics	Geometry and a "C" average in Algebra II
	Geometry, Concepts of Chemistry, and a "B" average in Algebra II

2) Addition of a Botany/Zoology course

ZOOLOGY & BOTANY *030601A000/03058A000*
(11, 12) 2 semesters
Prerequisite: Completion of Biology with a "C" average or better
Meets 1.0 Science credit

This is a yearlong class. Both portions of the class will be conducted as advanced, college-prep lab courses. Botany is the study of plants and the way humans use them. The Botany portion will occur in the fall to allow greater opportunity in order to utilize mature plant specimens. Areas of concentration will be bacteria, fungi, algae, mosses, ferns, conifers and the flowering plants. Zoology is the study of animals and will be the focus during the second semester. This portion of the course will survey the major animal phyla. Included phyla will be the invertebrates, fishes, amphibians, reptiles, birds and mammals. Instruction will incorporate notes/lecture, research assignments, reading assignments, labs (including dissections, microscopy, and online interactives), field work, statistical analysis, mathematics, data interpretation, inquires, and activities.