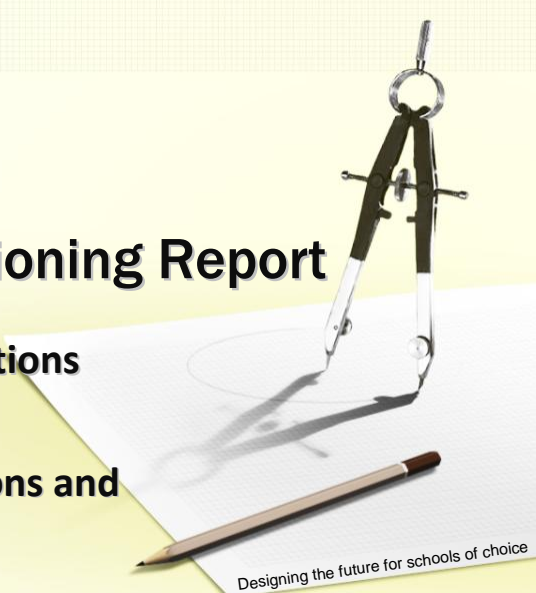


Plano ISD Academy Visioning Report



Designing the future for schools of choice

Plano ISD Academy Visioning Report



**Plano ISD
Academy Visioning Report**

**Findings and Directions
Guiding Questions
Initial Considerations and
Next Steps**



Process

- ▶ **Visioning Committee**
- ▶ **Internal working groups**
 - ▶ Program of Study
 - ▶ Instruction, curriculum, technology, and training
 - ▶ Staffing Model
 - ▶ School Organization
 - ▶ Transportation
 - ▶ Space Utilization
 - ▶ Program Evaluation
 - ▶ Community Partnerships

Plano ISD Academy Visioning Report

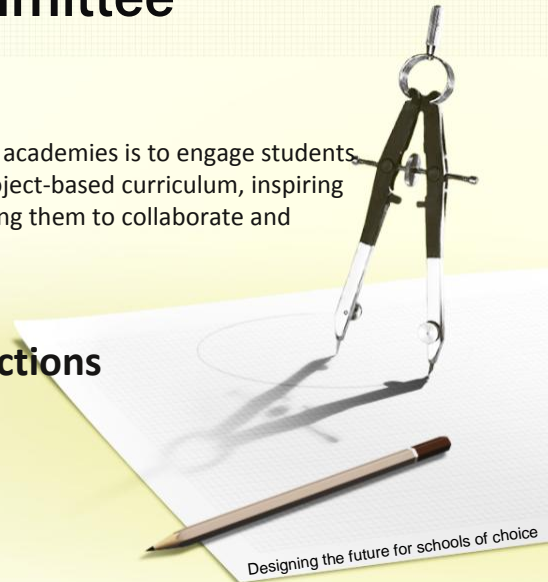
Visioning Committee

► Mission

- The mission of Plano ISD academies is to engage students in a rigorous, distinct project-based curriculum, inspiring creativity and empowering them to collaborate and compete globally.

► Parameters

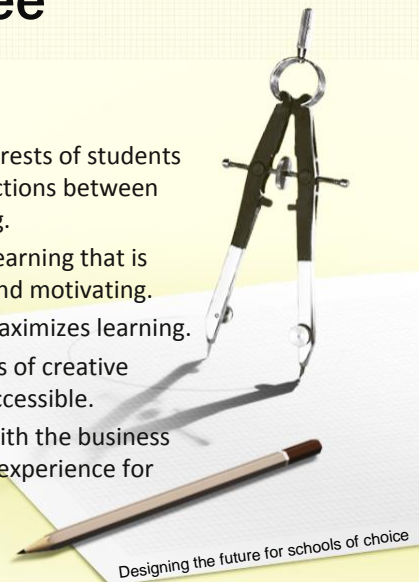
► Findings and Directions



Visioning Committee

► Findings and Directions

- Academies related to the career interests of students provide engaging, motivating connections between students' interests and their learning.
- PBL engages students in real world learning that is relevant, interesting, collaborative and motivating.
- A thoughtful arrangement of time maximizes learning.
- Technology is essential for all aspects of creative learning and should be universally accessible.
- The Academies should collaborate with the business community to enhance the learning experience for students.



Plano ISD Academy Visioning Report

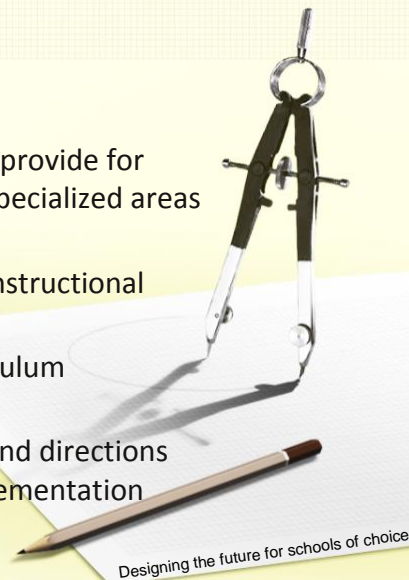
Internal Working Groups

- ▶ **Develop Guiding Questions**
- ▶ **Continue the study of academies in other school districts**
- ▶ **Create a common understanding of the work of the visioning committee**
- ▶ **Determine initial points for consideration by the Board of Trustees**



Program of Study

- ▶ **Guiding Questions**
 - ▶ What do our current offerings provide for students in high interest and specialized areas of study?
 - ▶ What is our vision of the PBL instructional approach?
 - ▶ How do we organize the curriculum for the academy?
 - ▶ How will we provide support and directions for the development and implementation of the academy?



Plano ISD Academy Visioning Report

Program of Study

What do our current offerings provide for students in high interest and specialized areas of study?

▶ **Current offerings and opportunities**

- ▶ College level courses (AP and Dual Enrollment)
- ▶ Career and Technical Education
- ▶ Performing Arts

▶ **Current “magnet” courses**

▶ **International Baccalaureate (IB)**



Program of Study

What is our vision of the PBL instructional approach?

▶ **PBL as the defining learning environment characteristic**

- ▶ Project-based learning
- ▶ Problem-based learning

▶ **Traditional instruction**



Plano ISD Academy Visioning Report

Program of Study

How do we organize the curriculum for the academy?

- ▶ Context
- ▶ Focus/strand/pathway/tower
- ▶ Local area academies



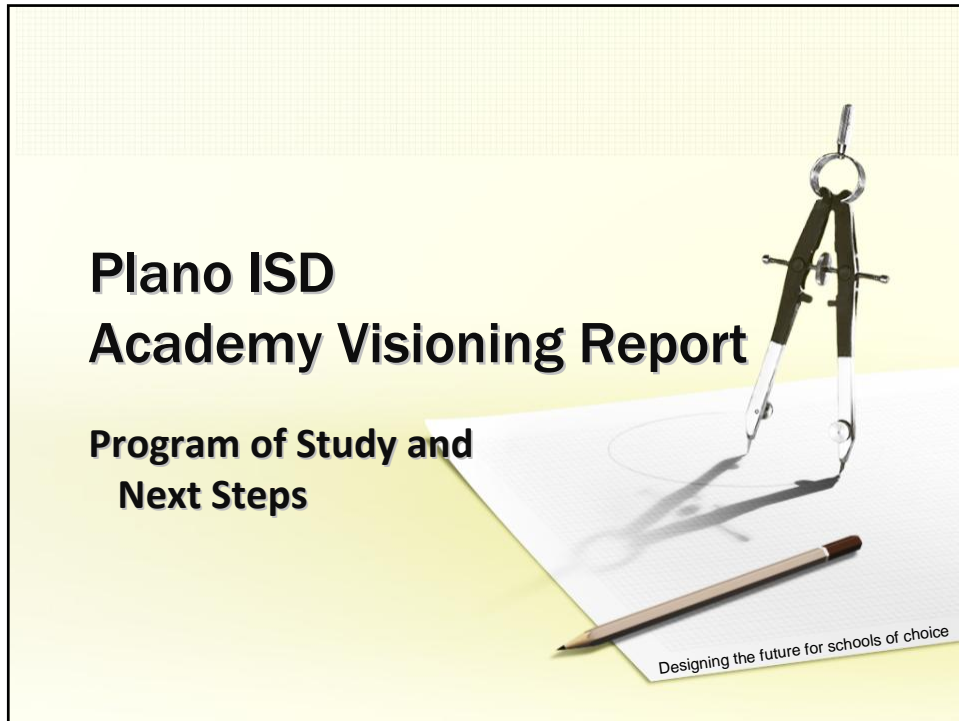
Program of Study

How will we provide support and directions for the development and implementation of the academy?

- ▶ Preferred curriculum model
 - ▶ Course structure
 - ▶ Development process
 - ▶ Implementation process
 - ▶ Training and technology needed to support the model



Plano ISD Academy Visioning Report



Current Offerings and Opportunities for Plano ISD High School Students

College level courses:

Thirty-one (31) Advanced Placement (AP) courses:

Art History	Macroeconomics
Art – Two-Dimensional Design	Microeconomics
Art – Three-Dimensional Design	European History
Art – Drawing Portfolio	Government – Comparative Government and Politics – U.S.
Biology	United State History
Chemistry	World History
Physics B	Human Geography
Physics C	Psychology
Environmental Science	Spanish Language
Computer Science A	French Language
Calculus AB	German Language
Calculus BC	Latin – Vergil
Statistics	Spanish Literature
English Language and Composition	
English Literature and Composition	Chinese Language and Culture
Music Theory	

Four (4) Dual Enrollment courses with Collin College:

Economics	Government
English IV	U.S. History

Career Cluster	Year 1	Year 2	Year 3	Year 4	Related/Suggested Additional CTE Courses
Agriculture, Food & Natural Resources	Animal Systems Pathway				
	Small Animal Management (Clark, Jasper, Shepton, Vines, Williams) or Livestock Production (Plano East, Plano Senior, Clark, Vines, Jasper)	Wildlife, Fisheries & Ecology Management (Plano East, Plano Senior, Plano West, Clark, Shepton, Vines, Williams)	Equine Science (Plano East, Plano West) or Veterinary Medical Applications (Plano East, Plano Senior, Plano West)	Practicum in Agriculture (Vet Med II) (Plano East, Plano Senior, Plano West)	Food Science (gr 12) (beg. Fall 2011)
	Agribusiness System Pathway				
	Professional Standards in Agribusiness (Plano East, Plano Senior, Plano West, Jasper, Shepton, Vines)				Principles of Business, Marketing & Finance (9-10) Business Information Management (9-12) Touch System Data Entry (9-12) Entrepreneurship (11-12) Business Law (11-12) Global Business (11-12) Virtual Business (beg. Fall 2011) (9-12) Accounting (11-12)
	Power, Structural and Technical Systems Pathway				
		Agricultural Mechanics and Metal Technologies (Plano East, Plano Senior)		Gateway to Technology (gr 8) Introduction to Engineering Design (9-10) Engineering Design and Presentation (12) Automotive Technology (11-12)	
Architecture and Construction	Plant Systems Pathway				
		Landscape Design and Turfgrass Management (Plano East, Plano Senior, Clark, Williams)		Principles and Elements of Floral Design (Plano East, Plano Senior, Plano West)	Graphic Design and Illustration (11-12) Wildlife, Fisheries & Ecology Management (9-12)
	Architecture Pathway				
		Architectural Design (Plano Senior, Plano West)	Advanced Architectural Design (Plano Senior, Plano West)	Business Information Management (9-12) Accounting (11-12) Desktop Publishing (9-12) Digital and Interactive Media (9-12) Touch System Data Entry (9-12) Principles of Business, Marketing & Finance (9-10) Ag Mechanics & Metal Technologies (11-12) Webmastering (9-12) Virtual Business (beg. Fall 2011) (9-12) Landscape Design & Turf Grass Mngm't (9-12) Principles & Elements of Floral Design (11-12)	
	Interior Design Pathway				
		Interior Design (Plano East, Plano Senior, Plano West)		Architectural Design (11-12) Advanced Architectural Design (12) Entrepreneurship (11-12) Graphic Design & Illustration (11-12) Principles & Elements of Floral Design (11-12)	
Arts, AV Technology and Communications	Graphic Design Pathway				
			Graphic Design & Illustration (Plano Senior, Plano West)	Advanced Graphic Design & Illustration (Plano Senior, Plano West)	Business Information Management (9-12) Accounting (11-12) Desktop Publishing (9-12) Digital and Interactive Media (9-12) Principles of Business, Marketing & Finance (9-10) Touch System Data Entry (9-12) Webmastering (9-12) Virtual Business (beg. Fall 2011) (9-12)
	Fashion Design Pathway				
	Principles of Human Services (Plano Senior, Williams)		Fashion Design (Plano East, Plano Senior, Plano West)	Advanced Fashion Design (Plano Senior, Plano West)	Skills for Living & Careers (7th or 8th grade) Life Management & Careers (7th or 8th grade) Graphic Design & Illustration (11-12) Fashion Marketing (11-12)

Career Cluster	Year 1	Year 2	Year 3	Year 4	Related/Suggested Additional CTE Courses
Business Management & Administration	Business Information Pathway				
	Principles of Business, Marketing & Finance (Jasper, Shepton)	Touch System Data Entry (Plano Senior, Clark, Jasper, Shepton, Williams)	Business Information Management (Plano East, Plano Senior, Plano West, Clark, Jasper, Shepton, Vines, Williams) or Global Business (Plano East, Plano West)	Practicum in Business Management	Virtual Business (beg. Fall 2011) (9-12) Digital and Interactive Media (9-12) Desktop Publishing (9-12) Entrepreneurship (11-12) Computer Science (11-12) Internetworking (11-12) Webmastering (9-12)
Business Management & Administration	Business Management Pathway				
	Principles of Business, Marketing & Finance (Jasper, Shepton)	Touch System Data Entry (Plano Senior, Clark, Jasper, Shepton, Williams) or Virtual Business (beg. Fall 2011)	Business Information Management (Plano East, Plano Senior, Plano West, Clark, Jasper, Shepton, Vines, Williams) or Global Business (Plano East, Plano West)	Practicum in Business Management or Business Law (Plano East, Plano West)	Entrepreneurship (11-12) Desktop Publishing (9-12) Digital and Interactive Media (9-12) Webmastering (9-12)
Education & Training	Teaching Pathway				
	Principles of Human Services (Plano Senior, Williams)		Child Development (Plano East, Plano Senior, Plano West) or Instructional Practices in Education & Training (Plano East, Plano Senior, Plano West)	Practicum in Education & Training (Plano East, Plano Senior, Plano West)	Touch System Data Entry (9-12) Business Information Management (9-12)
Finance	Accounting Pathway				
	Principles of Business, Marketing & Finance (Jasper, Shepton)	Touch System Data Entry (Plano Senior, Clark, Jasper, Shepton, Williams)	Business Information Management (Plano East, Plano Senior, Plano West, Clark, Jasper, Shepton, Vines, Williams)	Accounting (Plano East, Plano Senior, Plano West)	Business Law (11-12) Global Business (11-12) Entrepreneurship (11-12) Desktop Publishing (9-12) Digital and Interactive Media (9-12) Virtual Business (beg. Fall 2011) (9-12) Webmastering (9-12)
Health Science	Biotech Research & Development/Diagnostic Services/Health Informatics/Support Services/Therapeutic Services: Pathway				
	Medical Terminology (beg. Fall 2011)	Principles of Health Science (Plano East, Plano Senior, Plano West, Clark, Jasper, Shepton, Vines, Williams)	Health Science (Plano East, Plano Senior, Plano West)	Anatomy & Physiology (Plano East, Plano Senior, Plano West)	Practicum in Health Science (12) Business Information Management (9-12) Accounting (11-12) Food Science (beg. Fall 2011) (12)
Health Science	Pharmaceutical Services Pathway				
	Medical Terminology (beg. Fall 2011)	Principles of Health Science (Plano East, Plano Senior, Plano West, Clark, Jasper, Shepton, Vines, Williams)	Health Science (Plano East, Plano Senior, Plano West)	Practicum in Health Science - Pharmacy Tech (Plano East, Plano Senior, Plano West)	Business Information Management (9-12) Anatomy & Physiology (12) Accounting (11-12)
Hospitality & Tourism	Restaurant & Hospitality Pathway				
	Principles of Hospitality & Tourism (Clark)	Restaurant Management (Plano East, Plano Senior, Williams) or Lifetime Nutrition & Wellness (Plano East, Plano Senior, Plano West, Shepton)	Culinary Arts (Plano East)	Food Science Practicum in Culinary Arts (Plano East)	Skills for Living & Careers (7th or 8th grade) Life Management & Careers (7th or 8th grade) Entrepreneurship (11-12) Virtual Business (beg. Fall 2011) (9-12) Global Business (11-12) Business Information Management (9-12)

Career Cluster	Year 1	Year 2	Year 3	Year 4	Related/Suggested Additional CTE Courses
Human Services	Human Services Pathway				
	Principles of Human Services (Plano Senior, Williams)		Lifetime Nutrition & Wellness (Plano East, Plano Senior, Plano West, Shepton) or Interpersonal Studies (Plano East) or Dollars & Sense (Plano East, Plano Senior, Plano West) or Career Prep I (Plano East, Plano Senior, Plano West) or Child Development (Plano East, Plano Senior, Plano West)	Career Prep II (Plano Senior)	Skills for Living & Careers (7th or 8th grade) Life Management & Careers (7th or 8th grade) Instructional Practices in Education & Training (11-12)
Information Technology	Information Technology Pathway				
		Digital and Interactive Media (Plano East, Plano Senior, Plano West, Clark, Jasper, Shepton, Vines, Williams)	Computer Science I, I AP, I IB*, (Plano East, Plano Senior, Plano West) or Internetworking I (Cisco) (Plano Senior) *at Plano East only	Computer Science 2, 2 AP, 2 IB*, (Plano East, Plano Senior, Plano West) Internetworking II (Cisco) (Plano Senior) *at Plano East only	Exploring Computer Applications (7-8) Business Information Management (9-12) Touch System Data Entry (9-12) Webmastering (9-12)
Law, Public Safety Corrections, and Security	Law Enforcement Pathway				
			Principles of Law, Public Safety, Corrections, and Security (Plano East, Plano Senior, Plano West) or Law Enforcement I (Plano East, Plano Senior, Plano West)	Forensic Science (beg. Fall 2011)	Touch System Data Entry (9-12) Business Information Management (9-12)
Marketing	Fashion Marketing Pathway				
	Principles of Business, Marketing & Finance (Jasper, Shepton)		Fashion Marketing (Plano East, Plano Senior, Plano West) or Marketing Dynamics (Plano East, Plano Senior, Plano West)	Entrepreneurship (Plano Senior, Plano West) or Practicum in Marketing Dynamics (Plano East, Plano Senior, Plano West)	Touch System Data Entry (9-12) Business Information Management (9-12) Virtual Business (beg. Fall 2011) (gr 9-12) Accounting (11-12) Fashion Design (11-12) Digital and Interactive Media (9-12) Desktop Publishing (9-12) Webmastering (9-12)
	Sports and Entertainment Marketing Pathway				
	Principles of Business, Marketing & Finance (Jasper, Shepton)		Sports and Entertainment Marketing (Plano East, Plano Senior, Plano West) or Marketing Dynamics (Plano East, Plano Senior, Plano West)	Entrepreneurship (Plano Senior, Plano West) or Practicum in Marketing Dynamics (Plano East, Plano Senior, Plano West)	Touch System Data Entry (9-12) Business Information Management (9-12) Virtual Business (beg. Fall 2011) (9-12) Accounting (11-12) Lifetime Nutrition and Wellness (9-12) Digital and Interactive Media (9-12) Desktop Publishing (9-12) Global Business (11-12) Business Law (11-12) Webmastering (9-12)

Career Cluster	Year 1	Year 2	Year 3	Year 4	Related/Suggested Additional CTE Courses
	Entrepreneurship Pathway				
	Principles of Business, Marketing & Finance (Jasper, Shepton)		Entrepreneurship (Plano Senior, Plano West) Marketing Dynamics (Plano East, Plano Senior, Plano West)	Practicum in Marketing Dynamics (Plano East, Plano Senior, Plano West)	Fashion Marketing (11-12) Sports and Entertainment Marketing (11-12) Touch System Data Entry (9-12) Business Information Management (9-12) Virtual Business (beg. Fall 2011) (9-12) Accounting (11-12) Digital and Interactive Media (9-12) Desktop Publishing (9-12) Global Business (11-12) Business Law (11-12) Webmastering (9-12)
Science, Technology, Engineering & Mathematics	Engineering Pathway				
	Introduction to Engineering Design - PLTW (beg. Fall 2011) (Clark, Jasper, McMillen, Shepton, Vines, Williams)	Principles of Engineering - PLTW (beg. Fall 2012)	Engineering Design & Presentation (Plano West) or Principles of Engineering (beg. Fall 2012)	Scientific Research & Design (Plano Senior)	Gateway to Technology (PLTW) (gr 8)
Transportation, Distribution and Logistics	Automotive Technology Pathway				
			Automotive Technology (Plano East, Plano Senior)	Advanced Automotive Technology (Plano East, Plano Senior)	Touch System Data Entry (9-12) Business Information Management (9-12) Virtual Business (beg. Fall 2011) (9-12) Accounting (11-12) Digital and Interactive Media (9-12) Desktop Publishing (9-12) Global Business (11-12) Business Law (11-12) Webmastering (9-12) Agricultural Mechanics & Metal Technologies (11-12)
	Collision Repair Pathway				
			Collision Repair & Refinishing (Plano Senior)	Advanced Collision Repair & Refinishing (Plano Senior)	Touch System Data Entry (9-12) Business Information Management (9-12) Virtual Business (beg. Fall 2011) (9-12) Accounting (11-12) Digital and Interactive Media (9-12) Desktop Publishing (9-12) Global Business (11-12) Business Law (11-12) Webmastering (9-12) Agricultural Mechanics & Metal Technologies (11-12)

Performing Arts courses:

String Orchestra I
String Orchestra II
String Orchestra III
String Orchestra IV
Philharmonic Orchestra I
Philharmonic Orchestra II
Philharmonic Orchestra III
Philharmonic Orchestra IV
Symphony Orchestra I
Symphony Orchestra II
Symphony Orchestra III
Symphony Orchestra IV
Orchestra III – H
Orchestra IV – H
Concert Band I
Concert Band II
Concert Band III
Concert Band IV
Symphonic Band I
Symphonic Band II
Symphonic Band III
Symphonic Band IV
Wind Ensemble I
Wind Ensemble II
Wind Ensemble III
Wind Ensemble IV
Band III - H
Band IV - H
Instrumental Ensemble I – Percussion
Instrumental Ensemble II – Percussion
Instrumental Ensemble III – Percussion
Instrumental Ensemble IV – Percussion
Jazz Band I
Jazz Band II
Jazz Band III
Jazz Band IV
Concert Choir I
Concert Choir II
Concert Choir III
Concert Choir IV
Mixed Choir I
Mixed Choir II
Mixed Choir III
Mixed Choir IV
Tenor / Bass Choir I
Tenor / Bass Choir II
Tenor / Bass Choir III
Tenor / Bass Choir IV
Treble Choir I
Treble Choir II
Treble Choir III
Treble Choir IV
Vocal Ensemble I
Vocal Ensemble II
Vocal Ensemble III
Vocal Ensemble IV
Choir III – H
Choir IV – H
Jazz / Show Choir I
Jazz / Show Choir II
Jazz / Show Choir III
Jazz / Show Choir IV
Music Theory
Music Theory – AP
Theater Arts I
Theater Arts II
Theater Arts III
Theater Arts IV
Technical Theater I
Technical Theater II
Technical Theater III
Technical Theater IV
Theater Production I
Theater Production II
Theater Production III
Theater Production IV
Theater Production I – H
Theater Production II – H

Current “magnet” courses eligible for open transfer:

<u>COURSE</u>	<u>CAMPUS</u>
Graphic Design and Illustration/Advanced Graphic Design and Illustration	PSHS
Collision Repair and Refinishing/Advanced Collision Repair and Refinishing	PSHS
Automotive Technology/Advanced Automotive Technology	PSHS & PESH
Architectural Design/Advanced Architectural Design	PSHS & PWSH
Culinary Arts/Practicum in Culinary Arts	PESH
International Baccalaureate Magnet	PESH (Clark/Williams)

Transfer requests to attend these campuses full-time will be approved if requested, with eligibility to participate in extra-curricular activities. The student must be enrolled in the course(s) for both semesters. If the student withdraws from the magnet course(s) the following year, the student will lose one year of eligibility if he/she returns to their home school. Most students enrolling in these courses utilize the daily shuttle services to take the course and then return to their home school for all other courses. Students commuting to take the magnet course only are eligible to participate in activities at their home school.

NOT Magnet Courses – offered at all campuses

Health Science/Practicum in Health Science
Instructional Practices in Education & Training/Practicum in Education & Training
Veterinary Medical Applications/Veterinary Medical Assistant II
Electricity & Electronics Technology
Fashion Design/Advanced Fashion Design

International Baccalaureate courses:

English 3 IB
Spanish 3 IB
Spanish 4 IB
French 3 IB
French 4 IB
US History IB
Economics IB
Biology 2 IB SL
Chemistry 2 SL IB
Physics IB SL
Environmental Systems IB SL
Algebra 2/H/IH/AP
Regulars Pre-Calculus
Pre-Calculus H/IB/AP
Math Studies IB (SL)
Calculus IB (SL)
Computer Science 1 IB
IB Art 3
Theory of Knowledge
English 4 IB
Spanish 4 IB
Spanish 5 IB
French 4 IB
French 5 IB
World Area Studies
Economics 1 IB
Biology 2 IB SL
Biology 2 IB HL
Chemistry 2 IB SL
Chemistry 2 IB HL
Physics IB HL
Environmental Systems IB SL
Math Studies IB (SL)
Calculus IB (SL)
Calculus IB (HL)
Computer Science 1 IB SL
Computer Science 2 IB HL
IB Art 4

PBL

A Comparison of Project-based and Problem-based Learning

Similar	Different
<ul style="list-style-type: none"> • Constructivist • Holistic <ul style="list-style-type: none"> ○ Knowledge and learning embedded • Outcome based • Contextualized • Learner centered • Group based • Teacher facilitates 	<ul style="list-style-type: none"> • In problem-based learning -- learning results from the process of working towards understanding or resolution of a problem • In project-based learning -- the project, rather than the solution to a problem, is the central learning focus • Often time is shorter for a problem than a project