Academic Advising and Career Exploration

Professional School Counselors are critical to the success of PLTW and other expanding academic programs in high schools. Academic advising requires PSCs to know the academic program requirements, the academic and performance abilities of each student and career interests based on personal choice and interest inventories. Bayless School District is in year three of layering in the PLTW Engineering Program and year one of PLTW Bio Med. Course selection begins during first quarter with the use of an academic plan, which transforms into January course selection. The Junior High Counselor and Director of Guidance will share resources and explain the academic advising process that works for the Bayless Schools.
Bayless School District Demographics

Bayless’ EC-12 student enrollment for SY 2015-16 is 1,605

- 799 students or 50% of Bayless students are PHLOTE (Primary Home Language Other Than English) students
- 265 or 16.3% receive English Language Learning services
- 1,097 or 63% are White, of which:
  - 383 or 35% are Bosnian
  - 127 or 11.5% are Middle Eastern
- 214 or 13% are African-American
- 185 or 11% are Asian, primarily from Vietnam
- 59 or 3.5% are Hispanic
- 2 or <1% are native American Indian
- 48 or 3% are multi-racial
- 68% receive Free/Reduced meals
Career Planning begins long before HS

- Elementary Career Exploration
  - Missouri Connections
  - K-5 Career Fair and Showcase

- Junior High Career Exploration
  - Transition from Elem to 6th grade
    - Course Selection is limited to 2 courses
      - All 6th graders take Public Speaking. The CTE/A+ partnership committee identified public speaking skills as essential in the world of work
      - PLTW courses for 6th grade are: Design and Modeling, sections are based on student requests.
  - Missouri Connections with 6th and 8th grade - transition years
    - Used to assist in course selection for 7th, 8th and 9th grades.
    - Career Clusters are entered into IC and adjusted throughout high school as needed
  - Career Choices and Technology as an 8th grade elective
  - Partnership with South Tech school
    - Survey to determine which programs they visit; used to help with PLTW placement for HS
Career Planning at the High School

- Career Choices and Technology Course
  
  This course is designed to foster academic planning and success for high school. Course curriculum will aid students in establishing and reaching life goals. Students will be introduced to strategies for identifying possible career interests along with exploring interests and abilities. Students will end the semester with a working digital and paper career and interest resource portfolio. The student’s working portfolio will serve as an individual planning tool throughout high school. Junior Achievement and other career professionals will provide hands-on experience in the world of work. This course is an essential foundation for success in high school and beyond and is required for BHS students.

  - My10yearplan
  - Junior Achievement partnership

- Follow up reviews of My10yearplan from the PSC
  
  - Adjust future plans based on academic achievement, grades and interests
Promoting the new Biomed Program
Academic Planning Timeline

- **July**
  - College Academy at Bayless High School

- **August**
  - Transition days in grades 6 and 9
  - Schedule Conflicts requested and career path used to advise

- **September**
  - Junior Achievement Field Trip for CC&T course (all freshmen and some 8th)
  - Sophomore classes - South Tech Presentations

- **October**
  - 8th grade South Tech Visit and survey for interests
  - 10th grade lesson on My10yearplan along with paper interest inventory
  - 11th grade lesson on Academic Planner in IC - drives course selection
Academic Planning Timeline

- **November**
  - 9th grade South Tech visit and survey for interests
  - 11th grade ASVAB test

- **December**
  - 6th and 8th grade Missouri Connections
  - 10th grade My10year plan lesson

- **January**
  - Letters sent to students who earned an A or B in Algebra I but did not take PLTW Intro to Engineering
  - 11th and 12th grade Course Selection
  - 10th Grade Course Selection
  - 11th and 12th grade Missouri Connections
Academic Planning Timeline

▶ February
  ◀ 9th grade Course Selection
  ◀ 9th grade parent night
  ◀ JH course selection; 5th grade transition
  ◀ Administrator workshop on scheduling needs

▶ March
  ◀ Spring Student Led Conferences including course selection and career planning information
  ◀ Finalize staffing needs and master schedule

▶ April

▶ May
  ◀ 10th grade My10yearPlan lesson

▶ June

Ongoing Efforts:
  College Visits through MCAC
  College Rep visits
  Junior Achievement
  Partnership Advisory - JH and HS
  Math Tutoring
Growing our PLTW programs

The right people in the right positions

► 2013-2014
  ► High School Intro to Engineering
    ► Industrial Tech Teacher - the right person in the right position - PASSION

► 2014-2015
  ► High School - Intro to Engineering and Principles of Engineering
  ► Junior High - Design and Modeling

► 2015-2016
  ► High School
    ► Intro to Engineering, Principles of Engineering and Environmental Sustainability
    ► Intro to Biomedical Sciences - 3 SECTIONS OF 25 - OH MY!!
  ► Junior High
    ► Design and Modeling, Automation and Robotics
    ► Medical Detectives
Selling the program to our kids

- Females in Engineering - Brunch and Build December 12 9 AM - Noon

Hover Craft
What Not To do...

What it should look like...
February 1, 2015

Congratulations - you qualify to participate in the Project Lead The Way Engineering Program at Bayless High School.

Project Lead The Way offers a different approach to learning and teaching. Through activity-, project-, and problem-based curriculum. PLTW gives students in kindergarten through high school a chance to apply what they know, identify problems, find unique solutions, and lead their own learning. For teachers, our engaging, rigorous professional development model provides tools to empower students and transform the classroom into a collaborative space where content comes to life.

Students earning a B or higher in Algebra I are eligible to sign up for the PLTW Engineering Course: Introduction to Engineering. In this introductory course, students dig deep into the engineering design process, applying math, science, and engineering standards to hands-on projects. They work both individually and in teams to design solutions to a variety of problems using 3D modeling software, and use an engineering notebook to document their work.

We encourage you to sign up for Introduction to Engineering for next year, working toward earning college credit. Missouri Science and Technology partners with PLTW to offer students college credit for successfully mastering the PLTW Engineering curriculum.

If you have any questions about PLTW Engineering you can talk with your school counselor, Mr. Mitchell or Mr. Ross from the Junior High.

Congratulations for earning a B or higher in Algebra I and qualifying for PLTW Introduction to Engineering.

Thank you -
Mrs. Suzanne Richardson
Director of Secondary Guidance
Continuing to Grow PLTW

- 2016-2017
  - Engineering Capstone Course
  - Biomedical - Human Body Systems
Bayless School District Website

http://www.baylessk12.org/

- Bayless High School
  - Counseling Center
    - College and Career Readiness
Bayless PLTW Contact information

- Dawn Thieman, Assistant Superintendent
dthieman@Bayless.k12.mo.us

- Christa Hessler, Junior High Counselor
chessler@Bayless.k12.mo.us

- Emily Toenjes, High School Counselor
etoenjes@Bayless.k12.mo.us

- Suzanne Richardson, Director of Guidance and Assistant Principal
srichardson@Bayless.k12.mo.us