



 **Advanced** STEM CERTIFIED

3DE BANNEKER HIGH SCHOOL STUDENT AND PARENT HANDBOOK

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MISSION STATEMENT

The mission of the 3DE Banneker STEM Magnet Program is to teach a firm grounding of entrepreneurship with an emphasis on innovation and invention. It is one of the best ways we prepare our Business STEM students for the 21st century in the workforce, creating a level of ambiguity. Banneker’s 3DE Business & STEM Magnet program promotes innovation and entrepreneurship by “engaging learners where disciplines converge” through project-based learning, science fairs, entrepreneurship fairs, design challenges, and technology club competitions that require students to identify and solve problems using knowledge from across disciplines. Students will become culturally agile, critical thinkers and ask the right questions in various settings.

IMPORTANT DATES

- November 15, 2022 – Magnet Application Opens
- January 15, 2023 – Magnet Application Closes
- February 15, 2023 – Acceptance Notices start sent via e-mail
- March 5, 2023 – Declaration of Acceptance and Enrollment form

REGISTRATION & SCHEDULING

After the initial application process, students will be coded as 3DE students attending Banneker, and counselors create a schedule. ALL students will be enrolled following the CTAE course sequence of courses by taking Financial Literacy and IBT/DT.

Recruitment will still be ongoing until all seats are filled.



BANNEKER 3DE AND STEM CERTIFICATION HISTORY

BANNEKER 3DE HISTORY | *Established 2015*

The STEM Academy at Benjamin Banneker High School (BHS) was developed to address the growing role science, technology, engineering, and mathematics (STEM) play in the nation's economy. Fulton County School System launched the 3DE Magnet, formally named the Junior Achievement Magnet Business Academy (JAMBA) at BHS in the Fall of 2015. The JAMBA was developed through a partnership between Fulton County Schools and Junior Achievement of Georgia as a reform initiative to positively impact the academic, behavioral, and social outcomes at Banneker High School. Historically, BHS was one of the lowest-performing schools in Georgia, was identified as a school with the highest number of discipline infractions in the school district and had a graduation rate of less than 50%. Junior Achievement of Georgia partnered with Fulton County Schools to improve the overall student experience, provide a rigorous and relevant curriculum, and allow students to apply their learning through case study challenges and job site visits.

During the 2016-2017 school year, BHS applied for a School Improvement Grant and explored workforce development initiatives that align with STEM career clusters. Upon receiving the School Improvement Grant award, BHS hired a consultant to assess the career and technical education (CTE) offerings and recommended career pathways aligned to the local workforce. It was determined that BHS STEM students would concentrate on two pathways in the Information Technology Career Cluster, Computer Science and Programming, and continue supporting the growth and development of the STEM Career Clusters' Engineering and Technology Pathway.

The STEM program was the logical next phase to expanding the BHS 3DE magnet, which infuses the concepts of business, marketing, technology, and entrepreneurship into all core classes. Students are allowed to apply their learning through real-world problem-based activities. STEM programming complemented the rigorous course offerings required of magnet students and provided different concentrations that align with the long-term career goals of many students. During the 2017-2018 school year, BHS begin to offer three options for magnet students. Students were given the option to concentrate on Business Career Pathways, STEM Career Pathways, or both. All 3DE magnet students must complete the Business and Technology and Entrepreneurship Pathways regardless of the chosen option; this is done to facilitate the alignment of the monthly case studies and job site visits.

The learning experiences most successful for 3DE magnet students are the partner-driven case challenges and the interdisciplinary learning designed around the case challenges. Business partners present case challenges to students every five to six weeks. Challenges are real problems confronting the business ranging from technology, business management, branding, and customer relations. Case challenge themes are integrated across core subject areas to connect consistently with academic concepts and real-world applications. This approach to project-based learning fuels classroom engagement and promotes students' exploration of their passions, skills, and future possibilities. The case challenges are a catalyst for interdisciplinary learning experiences. Students need to draw upon all disciplines to perform research, analyze, collaborate, design, write and present solutions to complex business and technological problems.

The Banneker High School 3DE Magnet has consistently moved along a continuum of improvement and refinement in meeting the learning needs of our students. Our STEM programs' design is aligned with the three educational pathways that support the federal government's five-year plan for STEM education: Develop and Enrich Strategic Partnerships, Engage Students where Disciplines Converge and Build Computational Literacy. Our goal is to increase the awareness and interest in STEM pathways and careers among Banneker High School students and develop a STEM pipeline from high school to college that includes rigorous coursework and STEM career experiences.



MAGNET APPLICATION PROCESS

3DE Business STEM has its own application process. The application (once available) and other information about Fulton County Schools Magnet Programs can be found on the county’s magnet website along with visiting Banneker’s website for the 3DE Business STEM Magnet Program.

The initial application is from November 15, 2022 – January 15, 2023. In addition to completing 3DE Banneker Business STEM, Banneker applicants are required to submit an essay (information below) and provide supporting documentation. Late or incomplete applications will not be considered.

MAGNET PROGRAM APPLICATION REQUIREMENTS AND QUALIFICATIONS

To be considered for the 3DE Business STEM Magnet Program, students must meet the following qualifications. Application checklists are available below and on our website.

9TH GRADERS

- Applicant must be a current 8th grader (High School Class of)
- Live within the Fulton County School attendance zone. To check if you live within the required area, click here. Check Fulton County Schools website.
- Present an 70% (C) or higher in all academic subjects based on first semester of 8th grade
- Submit the online application for Banneker by accessing Banneker’s application via the Banneker website or Fulton County Magnet Application. (Available from November 15, 2022 – January 15, 2023)
- Submit all required supporting documentation including resume, transcript, test scores, and discipline records before January 15, 2023.

10TH GRADERS

- Applicant must be a current 9th grader (High School Class of)
- Must be enrolled in or have completed one year of a Social Studies course AND a World Language
- Live within the Fulton County School attendance zone. To check if you live within the required area, click here. Check Fulton County Schools website
- Present an 70% (B) or higher in all academic subjects based on first semester of 9th grade
- Submit the online application for Banneker by accessing Banneker’s application via the Banneker website or Fulton County Magnet Application. (Available from November 15, 2022 – January 15, 2023)
- Submit all required supporting documentation including resume, transcript, test scores, and discipline records before January 15, 2023.

PLEASE HAVE THE FOLLOWING INFORMATION READY WHEN COMPLETING YOUR APPLICATION

- | | |
|--|--|
| <ul style="list-style-type: none">• Applicant’s First and Last Name• Applicant’s Current Grade Level• Applicant’s Fulton County ID/Lunch Number (only if current FCS Student)• Applicant’s Current School• Applicant’s Zoned school for 2022-2023 (unsure? click here) | <ul style="list-style-type: none">• Parent/Guardian First and Last Name• Applicant’s Current Address• Phone Number• E-Mail (this will be our primary source of contact) |
|--|--|

Must complete online application and resume by January 15, 2023

ITEMS REQUIRED FOR RESUME

- Resume Submission Instructions. (Resume should be one-page):
 - Include basic information: Name, Address, Email & Phone number
 - Objective or Summary Statement of what you intend to accomplish in the 3DE Program or high school
 - Education: this should be your middle school or high school information
 - Work Experience if applicable
 - Extracurricular Activities
 - Community Service or Volunteering
 - Awards, Honors, Accomplishments, and Leadership Roles
 - Special Skills
 - 11-point Calibri or Times New Roman font
 - Double Spaced
 - Word Document or PDF only
 - E-mail to 3debannekerMagnet@fultonschools.org
 - Attachments only, please do not share files
- Academic Records and Discipline Files will be provided through the county's Infinite Campus System.

Please send Required Additional Documents to 3DE Banneker STEM Magnet using one of the following methods:

Option 1: Email documents to 3deBannekerMagnet@fultonschools.org

Option 2: Physically Mail to-

3DE Banneker Business STEM Magnet Program
Attention: Dr. Sharon Smith
6015 Feldwood Road
Atlanta, GA 30349

GRADUATION REQUIREMENTS FOR 3DE BUSINESS STEM MAGNET STUDENTS

To graduate with a magnet seal, 3DE Banneker STEM magnet students are required to complete the following:

- Complete 3 Business pathways. Business and Technology, Financial Services and Entrepreneurship
- Successfully pass one or more EOPAs
- 12th Senior Consultancy Portfolio
- Complete a total of 10 hours of community service

TRANSPORTATION INFORMATION

Transportation is provided to all students living within the Banneker Attendance Zone.

Students who live outside of the Banneker Attendance Zone can ride the Fulton County Schools Magnet Bus. Students will be picked up by the magnet bus at their home school at a designated time. These times are published in the summer leading up to the school year and can be found on the county's transportation website:

- <https://www.fultonschools.org/transportation>

Sweep buses are not offered to students who live outside the attendance zone.



WHAT IS 3DE?

EDUCATION FOR EVERY DIMENSION OF LIFE | *3DE History*

3DE was developed through a shared vision from leaders in education, business and Junior Achievement. This collective of passionate and innovative individuals united around the belief that equitable access to high quality education is the lever to economic mobility. With 90 percent of students in public schools, the focus was to develop public-private partnerships to systemically re-engineer education to better reflect the real world and prepare students for life beyond the classroom walls.

A joint venture between Fulton County Schools, JA of Georgia and the broader Atlanta community led to the pilot of a new school model. Launched in 2015 at Banneker High School, the model quickly demonstrated the ability to drive student engagement and academic performance. As a result, they created a new national organization to allow the model to scale with fidelity. This work led to the advent of what is now known as 3DE.

INSTRUCTIONAL MODEL | *How are students taught differently in 3DE?*

Competency-based Case Methodology is the 3DE instructional model. Through this format students master competencies for economic competitiveness, while increasing learning engagement and strengthening academic comprehension. This comprehensive instructional approach unlocks the creative capital of educators and fosters the behaviors, skills, and mindsets so all students have the capability, experiences, and self-efficacy to lead choice-filled lives.

CASE METHODOLOGY | *How does case methodology work?*

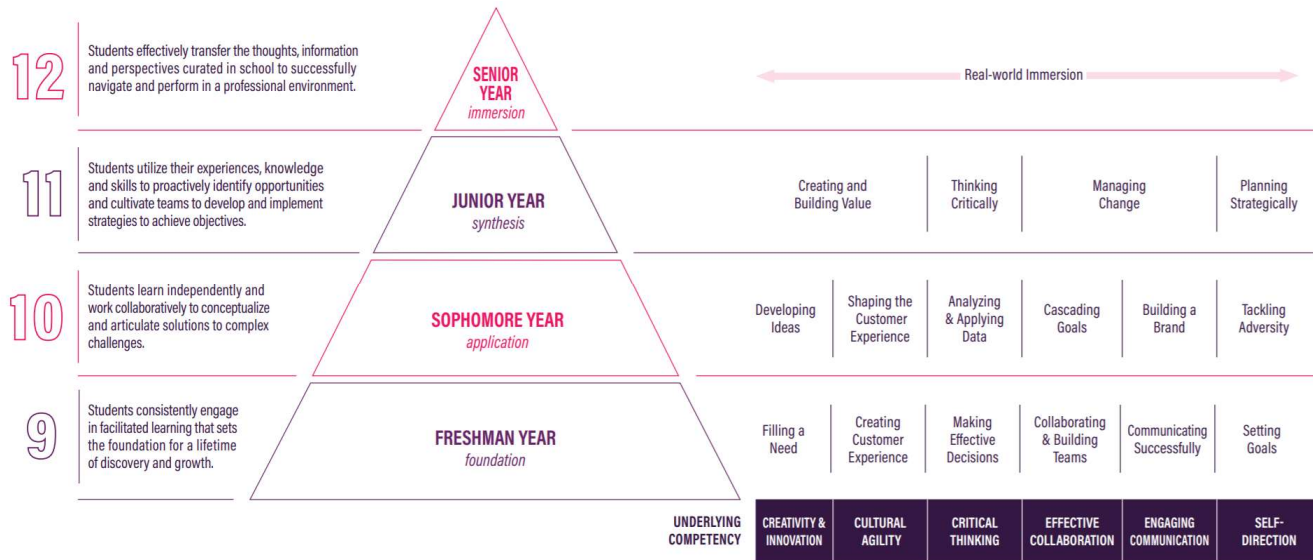
Case methodology is a teaching approach that uses decision-forcing cases to put students in the current role of people who are faced with difficult decisions. Utilized primarily within higher education institutions, case methodology effectively increases student engagement, strengthens comprehension through application, and builds critical and analytical thinking. Distinguishing features of case methodology include:

- Facilitated group inquiry into a well-defined problem
- Lively, evidence-based debate within classroom settings
- Guided analysis of authentic, company-sourced data and artifacts
- Continuous feedback throughout a collaborative decision-making process
- Integrated application of core content skills to address authentic industry-specific scenarios

As a central element of 3DE's model, case methodology provides ongoing connectivity between classroom curriculum and the demands of the current economy, uniquely engaging our stakeholders in shaping what it means to be prepared for the next generation of work.

3DE CORE COMPETENCIES | *Employability skills*

Learning is intentional in the development and demonstration of critical competencies. This is done through an iterative structure in which students have multiple interactions to develop the behaviors (Behavioral Indicators) to master critical competencies: *Effective Collaboration; Creativity & Innovation; Critical & Analytical Thinking; Cultural Agility; Engaging Communication; and Self-Direction.*



From 9th-11th grade, students engage in 16 cases that increase their practical understanding of how these core competencies are used within the workplace. Students explore and reflect on their personal mastery of the competencies, through authentic scenarios and interactions with business professionals.

Each case incorporates key behaviors to allow students the ability to draw parallels between academic concepts and real-world integration of these essential skills. By 12th grade, students apply all the competencies, tools, and skills they have learned and developed through the cases to a semester-long consultancy project with companies.

JUNIOR ACHIEVEMENT OF GEORGIA PARTNERSHIP

EXTERNAL PARTNERS | How do external business partners activate within the 3DE model?

Case methodology is at the core of 3DE's approach to instruction. This creates learning environments that are engaging, collaborative and connected. In every 3DE school, industries engage in meaningful ways that expand students' access to future opportunities, demonstrate the connectivity of academic concepts, and supports the development of competencies for economic competitiveness.

WHAT DOES THE PARTNERSHIP BETWEEN 3DE AND THE LOCAL JA OFFICE LOOK LIKE?

3DE works in close collaboration with the local JA Area to implement the 3DE model within each market. Whereas 3DE is focused on implementing the instructional model and building internal engagement at the schools, JA areas determine the strategic expansion within the market and drive external engagement of partners to support the model.

- Strategic Vision – Ensure alignment and integration of 3DE within JA areas overall product portfolio
- Expansion – Establish school districts partnerships
- Funding – Secure diverse local business partnerships to support case methodology
- Engagement – Recruit local business professionals to advise and coach students

NATIONAL PREMIER PARTNERS



JOSEPH B. WHITEHEAD
FOUNDATION

SPANX[®]
BY SARA BLAKELY[®]

NATIONAL SIGNATURE PARTNERS



NATIONAL PARTNERS





COURSE PROGRESSION

FOUR-YEAR COURSE REQUIREMENTS FOR 3DE STUDENTS | *Students' core classes may vary based on counselor recommendations*

		9 th Grade	10 th Grade	11 th Grade	12 th Grade
HUMANITIES COURSES	ELA	9th Grade Lit	10th Grade Lit	American Lit ¹ / AP Lang ²	Advanced Comp/ AP Lit/ Dual Enrollment English
		10th Grade Lit	American Lit ¹ / AP Lang ²	Advanced Comp/ AP Lit	
	WL	<i>(Students who took WL in middle school who want to continue starting 9th grade will be able to do so.)</i>		World Language I	World Language II
S.S.	American Government (one semester course)	World History	US History ¹	Economics (one semester course)	
		AP World History	AP US History ²		
STEM COURSEWORK CONNECTIONS	SCI.	Biology1	Chemistry	Physics	AP Science, Anatomy, Forensics, or other 4th Science option
	MATH	Algebra1	Geometry	Algebra II	Pre-Calculus
		Accelerated Algebra/Geometry A	Accelerated Geometry B/Algebra II	Accelerated Pre-Calculus	Dual Enrollment Math, or 4th Math option
	CTAE (3DE required pathways)	Geometry	Algebra II	Pre-Calculus	
Intro to Business & Technology (IBT) and Intro to Digital Technology (IDT)		Business Technology and Business Communications ³	Legal Environment of Business and Entrepreneurship ³	Senior Consultancy	
ADD. COURSES	MISC.	General Health (one semester course)	Writer's Workshop (paired with American Lit)	Writer's Workshop (paired with American Lit)	PE (one semester course)
		College Readiness Math (paired with Algebra 1)	Student Choice	Student Choice	Student Choice
		Student Choice (if not in Algebra 1)	Student Choice	Student Choice	

3DE REQUIRED PATHWAYS

- Business and Technology
- Financial Services
- Entrepreneurship

CTAE STEM PATHWAY (OPTIONAL)

- Game Design
 - Students can complete the Game Design Pathway by taking AP computer Science Principles (one year) and Game Design in their student choice options after IDT)

¹ Courses include Georgia End of Course Milestone during spring semester

² Courses include an Advanced Placement (AP) exam during spring semester.

³ Course includes a Georgia End of Pathway Assessment during spring semester.

STUDENT AND FAMILY EXPECTATIONS

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3DE PROGRAM EXPECTATIONS

BANNEKER 3DE BEHAVIORAL EXPECTATIONS | *Banneker 3DE students are model students within the school, and as such are expected to display exemplary behavior inside and outside the classrooms.*

1. NO cellphones or earbuds during instruction in your classrooms, culminating events, guest speakers, or class meetings. A cellphone caddy will be in all teacher's classrooms for student use.
2. Wear business attire during culminating events and Wednesdays.
3. Show respect and courtesy to all people. This includes using an appropriate tone of voice and language without arguing or talking back. No swearing, rude gestures, crude teasing, or put-downs allowed.
4. Be punctual. NO PASSES to other teachers' classrooms or during culminating events.
5. Wait to be dismissed by the teacher – you will remain in your seat until your teacher dismisses you.
6. Do not use any headphone-operated device in the classroom unless instructed by the teacher.
7. Listen attentively to instructions and lessons and **STAY on TASK**.
8. Remain silent during all announcements and broadcasts.
9. Come to class prepared daily. Be prepared for culminating events.
10. Support and participate in the learning process. Remember, every student has the right to learn.
11. Submit all work to your teachers neatly and professionally.
12. Make every effort to be in class every day. Absences are a significant cause of failure in most classes.
13. There is no cheating. All assignments submitted to your teachers will be the student's original work. Giving or receiving information, in any form, relating to a graded experience, either inside or outside the class, is considered cheating. One or both parties will receive a zero (0) on the assignment and be referred to the administration.
14. If a teacher is absent, please wait at the door until a substitute arrives or follow instructions posted on the door. **DO NOT** wander around in the hallway or skip class!
15. Bring your school device charged daily for learning. Students can't use their cellphones for instruction. **DO NOT** leave your device in other teachers' classes because a pass will not be issued to retrieve the device.

PROFESSIONALISM AND DRESS CODE

PREPARATION FOR THE REAL WORLD | *Bringing life to the 3DE Core Competencies*

As a 3DE student, you are expected to practice the behaviors and core competencies you will need to be successful in post-secondary education (2- or 4- year college, technical school, the military, apprenticeships, job training programs, etc.) and your career.

You are expected to adhere to Banneker High School's and Fulton County School District's code of conduct for behavior and attendance as well as:

BE SELF-DIRECTED

- Be on time for every class
- Attend every class every day
- Come to class prepared to learn: Have your homework completed; take out the materials you need for class; and put your cell phone away
 - If you need a pencil or other materials, ask your teacher at the start of the class period

BE CULTURALLY AGILE

- Respect and support your teachers, classmates, administrators, and the learning environment
- When entering a class already in session, walk in quietly and head directly to your seat
- Greet and treat all guests and volunteers with respect
- When attending a site visit or culminating event, dress for success by not wearing pants that are ripped or sag, or shirts that expose your belly or have inappropriate images or language

- Put earbuds and cell phones away during site visits, culminating events, and case challenge launches
- Display active listening skills by sitting up, making eye contact with speakers, putting your cell phone away, and refraining from sidebar conversations

COLLABORATE EFFECTIVELY

- Contribute your skills, knowledge, and experience to groupwork
- Respect the opinions and ideas of your groupmates, even if you disagree
- Include all members of the group in discussions
- Offer to help if you see a classmate is struggling

ATTENDANCE AND TARDINESS

EDUCATION FOR EVERY DIMENSTION OF LIFE | *description*

Attendance is vital to student success. Magnet students who fail to maintain a satisfactory attendance record will be subject to probation. A probation contract will be developed for a student who:

- has been tardy to school 15 or more times.
- has been absent from school 5 or more days, unexcused.

If absences are excused or medical but exceed 5 days, parents must provide written explanation of why the absences occurred. COVID-related absences will not count towards a students' attendance.

Tardies due to delays in FCS transportation do not impact attendance.

PARENTAL INVOLVEMENT

3DE PARENT TEACHER ORGANIZATION | *Stay informed. Get involved. Give back.*

The Banneker high School 3DE Program will be starting a Parent teacher Organization. Annual dues will be \$10, which will help to supplement the 3DE program activities at Banneker. These activities include, but are not limited to: snacks for testing, field trips, student prizes, 3DE Block Party.

Parents can pay the \$10, as well as make additional donation to the programs, online at OSP

<https://osp.osmsinc.com/FultonGA/>.

STUDENT LEADERSHIP

3DE STUDENT GOVERNMENT ASSOCIATION | *Stay informed. Get involved. Give back.*

The 3DE Student Leadership Team is a premier opportunity for 3DE students at Banneker High School to take on leadership opportunities while involved with community service and school functions.

Our goal is to represent the concerns of students and provide a liaison with the 3DE administration. Representatives will meet to discuss issues and plan activities for the entire 3DE student body. Representatives should be responsible, articulate, and resourceful members of the student body who are willing and able to take on this commitment.

Questions? smithmitchet@fultonschools.org

ACADEMIC EXPECTATIONS

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3DE BUSINESS-STEM MAGNET APPROVED PATHWAYS

3DE PATHWAYS AND EOPAS | *Career Pathways are state-approved career enhancement programs defined as a coherent, articulated sequence of rigorous academic and career related courses. End Of Pathway Assessments (EOPAS) are taken at the end of completion of the third course in the pathway course sequence.*

3DE Business Required Pathways

- Business and Technology
- Financial Services
- Entrepreneurship

Business, Management, and Administration Career Cluster

Business & Technology Pathway

- Introduction to Business & Technology
- Business & Technology
- Business Communications

Entrepreneurship Pathway

- Introduction to Business & Technology
- Legal Environment of Business
- Entrepreneurship

Financial Services Pathway*

- Introduction to Business & Technology
- Financial Literacy
- Banking, Investing, and Insurance

3DE STEM Pathway (Optional)

- Game Design

Financial Technology (FinTech) beginning fall 2023

- Introduction to Financial Technology
- Financial Technologies and Services
- Coding for FinTech

**FinTech will be a required 3DESTEM pathway beginning Fall 2023.*

Information Technology Career Cluster

Game Design

- Introduction to Digital Technology** (Introduction to Software Technology)
- Computer Science Principles or AP Computer Science Principles
- Game Design: Animation and Simulation

***Introduction to Digital Technology - Retiring 6/30/2023*

PATHWAY COMPLETERS – CORDS & CERTIFICATES

PATHWAY COMPLETERS | *if students complete all courses in the pathway and pass the EOPA, students receive:*

1. EOPA Certificate
2. Cord representing each pathway
3. Medal representing each pathway completed.
4. Distinguished Red Core with CTE

***If students score 70% above on the Entrepreneurship NOCTI EOPA will receive college credit.*

Students will also receive special recognition for Senior Consultancy, Dual Enrollment, Fulton College & Career Academy

3DE STOLE DISTINGUISHED & REGULAR SEAL CRITERIA

1. Students must take the 12th WBL Consultancy and complete at least one 3DE B-STEM approved pathway to receive a 3DE Stole for graduation.
2. 3DE B-STEM Diploma Seals and their meanings:
 - Gold – Distinguished: Students must complete all 3 Business pathways and pass all EOPA's.
 - Silver – Regular: Students must complete all 3 Business pathways and pass at least one EOPA.

PROBATION/GRADES

Students who do not meet academic, attendance and discipline expectations will be placed on probation the following semester. Probation terms will be determined by the magnet coordinator and counselor. These terms will be determined by student's behavior and centered around how to best support each student and their needs. Once a probation contract has been developed, it will be presented to the students and their guardians. Probation terms can include mandatory help sessions, trips to the tutoring center and other required tasks. Successful completion of the probation contract will end the student's probation for that semester.

Academic Probation

Students are expected to maintain an 80% or higher in all academic subjects and a 70% or higher in all electives. Student grades will be reviewed every nine-week grading period. Students who are not meeting expectations will be required to meet with the magnet coordinator or their counselor.

Discipline Probation

Students who have not maintained satisfactory behavior in school are eligible for disciplinary probation. Magnet students who exceed more than 5 days of disciplinary action (ISS or OSS) will be referred to the magnet coordinator and their counselor for disciplinary probation. Major infractions can result in immediate probation to ensure our students are getting the support they need to be successful.

Removal

Students who fail to fulfil their probationary contract will be subject to removal from the 3DE Business STEM Magnet Program. Students who live outside the attendance zone will be required to return to their home school.

SUMMER ASSIGNMENTS

3DE Business STEM Magnet will always have summer assignments. Please review summer assignments on the Banneker Website. Click 3DE to see summer assignments.