

DURHAM  
PUBLIC SCHOOLS

**SOUTHERN**  
SCHOOL OF ENERGY AND SUSTAINABILITY

**Southern School of Energy &  
Sustainability  
2024 Showcase of Schools**

# SPARTAN WELCOME



**Kenneth Barnes**  
**Principal**

Dear Parents and Students,

Welcome to the start of an exciting new school year at Southern School of Energy & Sustainability! It is an honor and privilege to serve as your principal, and I look forward to the wonderful year ahead filled with growth, learning, and new opportunities.

To our parents, we thank you for trusting us with your child's education. We are committed to providing a supportive and safe environment where every student can thrive academically, socially, and emotionally. Your partnership is vital to the success of our students, and we encourage open communication throughout the year. Together, we will work to ensure that every student reaches their full potential.

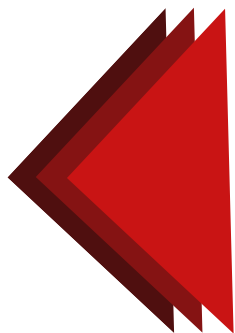
To our students, I am so excited to see your faces back in the classrooms, hallways, and extracurricular activities. This year will be a journey of discovery, challenge, and accomplishment. Our dedicated teachers and staff are here to guide and inspire you every step of the way. Remember, your voice and your efforts matter. Take advantage of every opportunity to learn, grow, and make a difference in our school community.

As we embark on this school year, let us continue to uphold our values of respect, responsibility, and excellence. Whether you are a returning family or new to our school, please know that we are all part of one big community that cares for one another.

Thank you for being a part of Southern School of Energy & Sustainability. I am confident that together, we will make this an outstanding year for all.

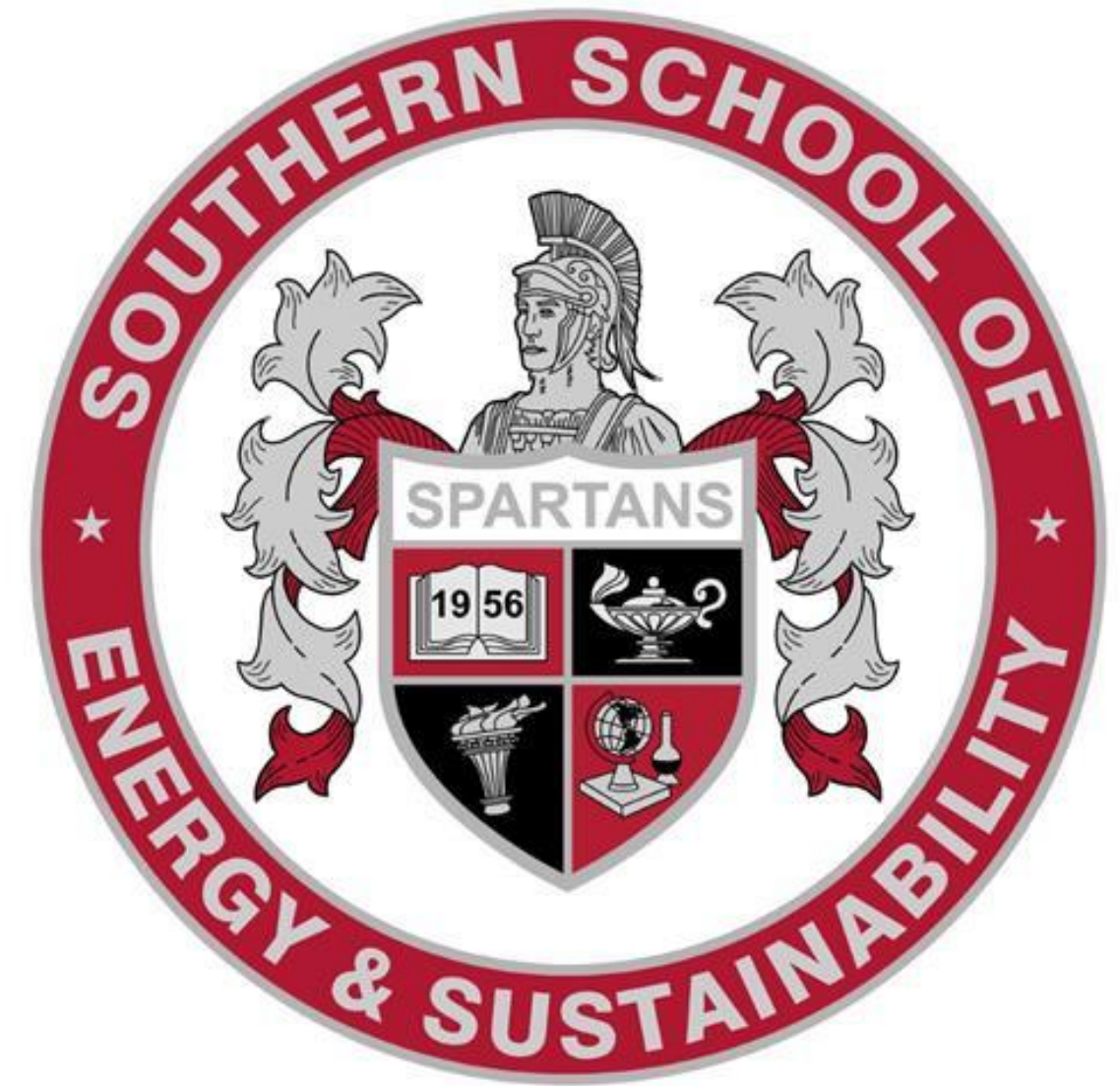
Sincerely,  
Kenneth Barnes

Principal, Southern School of Energy & Sustainability



# SSES FACTS

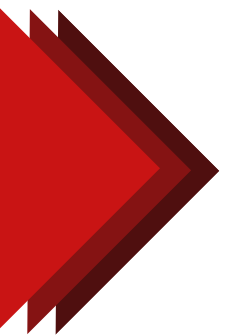
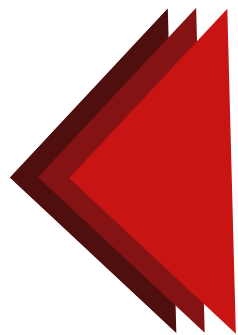
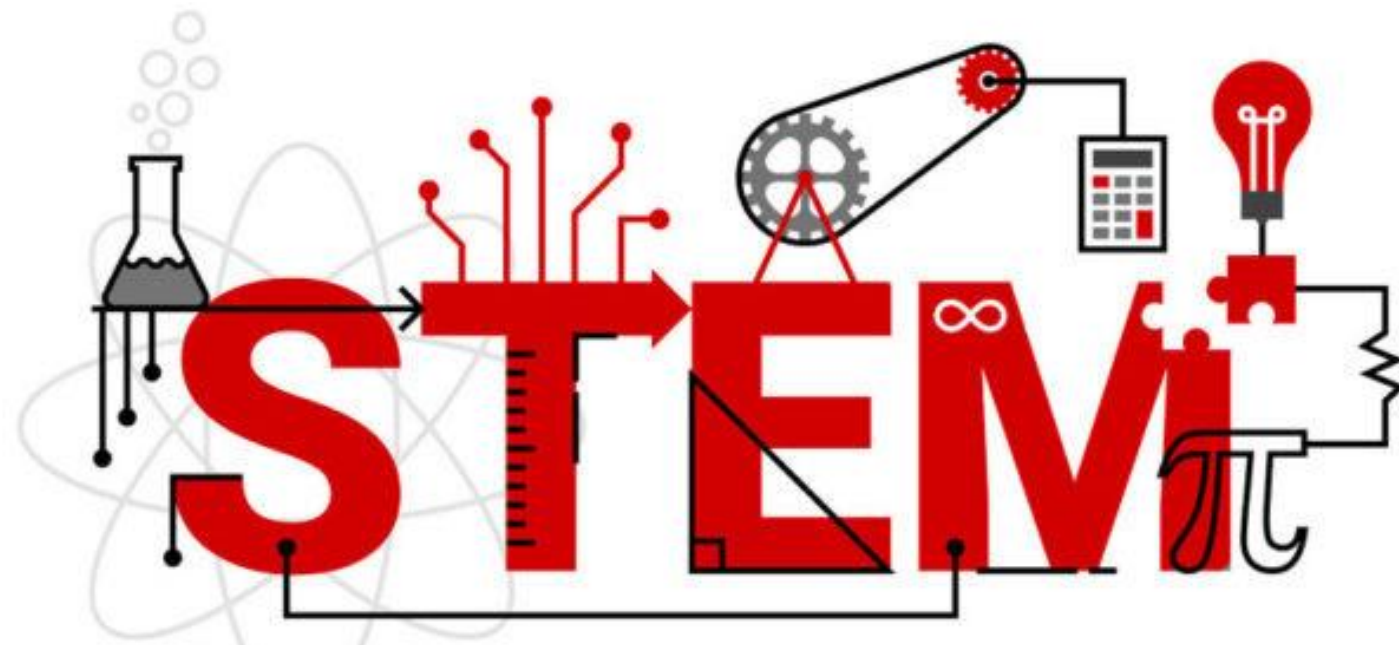
- **ENROLLMENT 1448**
- **GRADES 9-12**
- **TEACHERS 100+**
- **COUNSELORS 4**
- **AP COURSES 10+**
- **ADVANCED COURSES 10+**





# SOUTHERN'S THEME

**Science, Technology, Engineering, Mathematics (STEM)  
focus with Energy & Sustainability theme woven throughout  
curriculum**







# Mission & Vision

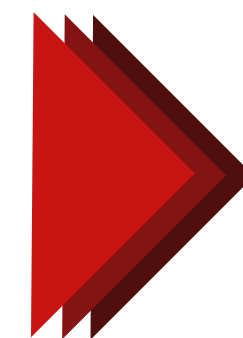
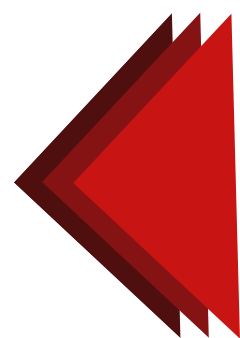
**Educate, Engage, and Develop,  
to Enroll, Employ, and Enlist**



**DURHAM**  
PUBLIC SCHOOLS

**A diploma from Southern School of Energy and Sustainability  
will indicate that the student is...**

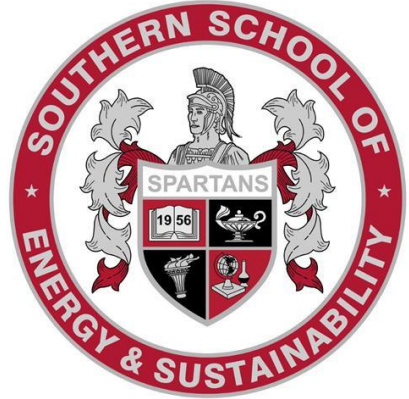
- **Equipped with the necessary skills to embrace the intellectual demands of both college and career.**
- **Ready to contribute as a responsible citizen to the global economy and workforce.**
- **One of sound character, high integrity, and strong critical thinking skills.**





# History as a Magnet

**Durham Public Schools, with the support of the New Schools Project of the Bill and Melinda Gates Foundation, re-invented the high school experience at Southern School of Energy & Sustainability and became a magnet in the 2013-2014 school year. The Sciences, Technology, Engineering, and Mathematics (STEM) Magnet Program at Southern School of Energy and Sustainability offers an innovative, customized, and engaging learning environment for students, while providing a 4-year program of study immersed in STEM studies and learning experiences over 5 smaller academies. Students participate in authentic experiences, collaborating to identify local, national, or global issues and develop solutions and action plans where energy and sustainability studies are woven throughout elective and core curriculum.**



# **School Calendar & Hours**

- **Southern School of Energy & Sustainability follows the Traditional Calendar**

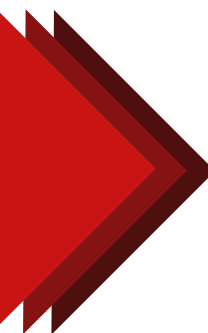
- **Serves students in grades 9-12**

**School Hours: 9:15 am- 4:15 pm**

- **Students must maintain residency in Durham, NC for all four years**

- **All students admitted to the pathway receive transportation from their base school**

**\*School clubs, tutoring and sports are offered before and after school based on teachers/advisors schedule**



# Student Clubs



**DECA**  
**Nature/outdoors**  
**FBLA**  
**Music, Movies,**  
**Munchies**  
**DECA and Real Estate**  
**Club**  
**Chess and Checkers**  
**Geography Club**  
**Latino Media Club**



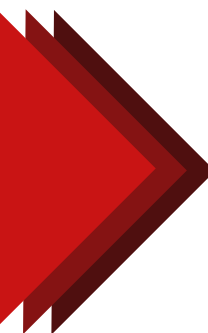
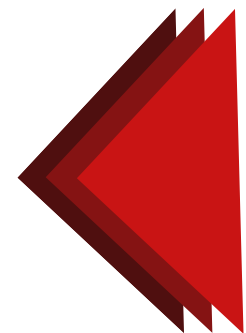
**DURHAM**  
PUBLIC SCHOOLS

**Theta Phi Delta Sorority, Inc**  
**Student Government Association**  
**Mindful Meditation / Wellness**

**Suite**  
**Gaming Club (PC) and Video Games**  
**ACT Study**  
**Anime Club**  
**Debate**  
**Trades Talk**

**Zumba**  
**Culture Club**  
**Book club**  
**Public Speaking Club**  
**Movie Club**  
**Basketball Film Club**  
**Craft Club**  
**Latino Ambassadors**  
**Spartan Kickboxing Club**  
**Yoga Club**  
**GSA (Gender Spectrum**  
**Alliance)**  
**Dance**  
**Real Estate Club**  
**BSU (Black student union)**  
**Battle of the Books**  
**Boys II Men**  
**Board Games**

**Natioal Honor Society**  
**EmpowerHer**  
**SSES Student**  
**Ambassadors**  
**The Art of Sound**  
**ESPN- First Take**  
**Drama Club**  
**Gospel Choir**





# Athletics

**Boys/Girls Cross  
Country**

**Cheerleading**

**Boys/Girls Golf**

**Field Hockey**

**Boys/Girls Soccer**

**Boys/Girls Lacrosse**

**Boys/Girls Tennis**

**Girls Flag Football**

**Cross Country**

**Football**

**Girls Volleyball**

**Boys/Girls Basketball  
Track & Field**

**boys/Girls Swimming**

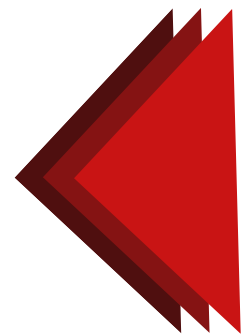
**Boys/Girls Wrestling**

**Boys/Girls Indoor**

**Track**

**Baseball**

**Softball**



# Meet our Assistant Principals



**Dr. Latoia Valentine**  
**Business Academy**



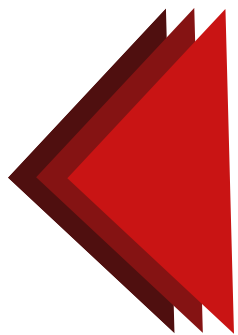
**Dr. Phillip Boayue**  
**ACE Academy**



**Mrs. Jennifer Campbell**  
**Director of School of**  
**Biomedical Technology**



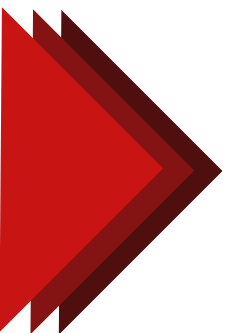
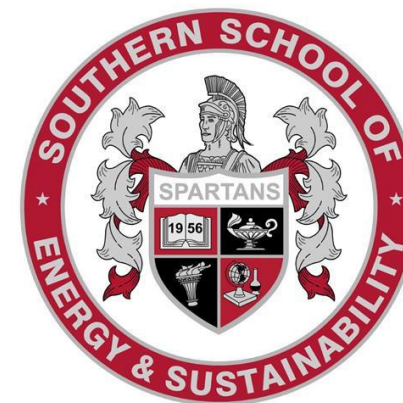
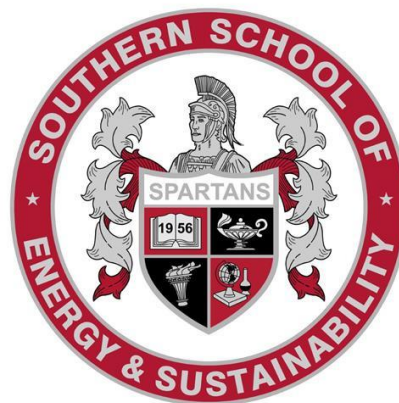
**Ms. Alaina Burr**  
**Technology and**  
**Engineering Academy**



# What is an academy?

**SSES offers four different academy options that allow you to specialize in a specific career pathway throughout the next three years. You will take academy courses within your chosen pathway to gain hands-on STEM knowledge in your chosen area.**

**Each of the academies have multiple pathways that you will choose from to narrow your focus and help to prepare you for a future career.**



# Program Pathways

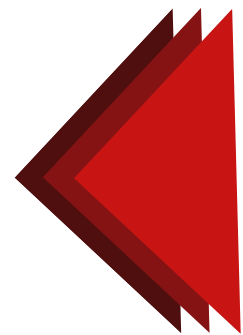


**DURHAM**  
PUBLIC SCHOOLS

**Biomedical Technology**  
**Skilled Trades**

**Computer Programming, Engineering, and  
Drone Operations**

**Architecture, Construction, & Engineering**  
**Business Management & Sustainability**





# **School of Business Management & Sustainability**

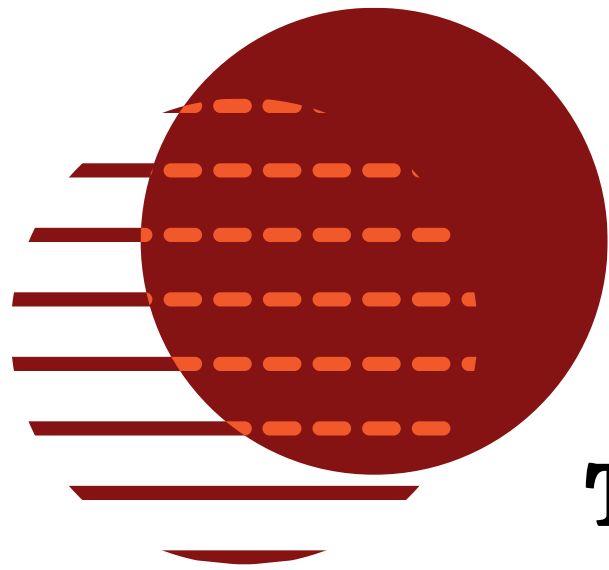
**This academy would be an excellent choice for students who are interested in owning their own business; enjoy working with numbers, money, people; and enjoy advertising items and getting people interested to buy or sell items for a profit.**

**Within this academy there are three tracks**

- **Accounting, Investments and Finance-** learn about the inner workings of a businesses money, explore how profits and losses are calculated, as well as how a business uses its funds.
- **Business Management and Entrepreneurship-** learn about finances, legal issues, ethics, and daily operations of business operations.
- **Marketing-**learn about advertising items and getting people interested to buy or sell item for a profit.

**Possible Careers**

- **Real Estate Agent, Stock Market Broker, Accountant, Financial Advisor, Banker, Business Management, Human Resources**

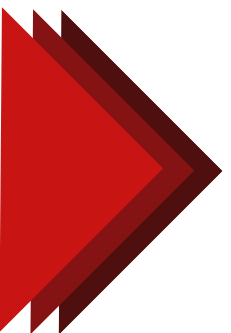
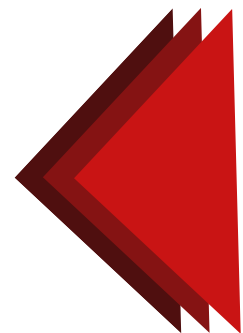
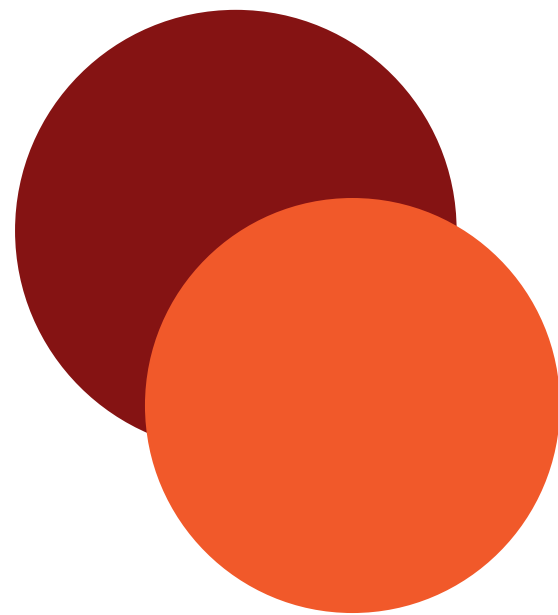


# **School of Technology & Engineering**

**This academy is a great fit for students who are interested in Computers, Drones/Aviation, and Engineering concepts as a whole - students who select this academy are usually interested in learning how systems and technology work and can assist society**

## **Possible Careers**

- **Computer Programmer, Robotics Engineer, Aviation Controls, Drone Operator, Structural Designer, Building/Land Surveyor**



# **School of Biomedical Technology**

**This academy is designed for students who are interested in Health Sciences, Sports Medicine, the human body, and learning how the human body works.**

## **Possible Careers**

**Lab Technician**

**Sports team Doctor/Trainer**

**Nurse**

**Medical Doctor**

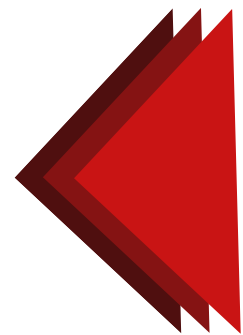


# **School of Architecture Construction and Engineering (ACE)**



**Within this academy there are 4 pathways, each with a unique focus**

- **Automotive-** Learn automotive skills in repair, preventative maintenance, engine theory, troubleshooting, & safety testing.
- **Construction-** Learn the overview of the construction industry & gain hands on experience in blueprint reading, hand & power tools, safety, foundations, & carpentry techniques.
- **Drafting-** Learn to use Computer Assisted Design in creating floor plans, wall sections, & elevations used in the design & execution of site and foundation plans. Design and build model buildings.
- **Skilled trade-** A 2 year program that will introduce students to a wide range of trade fields (carpentry, plumbing, HVAC, electrical, etc) and provide apprenticeship opportunities during their senior year.





# Career & Technical Education

**course offerings**

**Business Essentials**  
**Technology, Engineering and design**  
**Business Management I, II**  
**Technological Design**  
**Financial Planning I, II**  
**Drone Technology Fundamentals**  
**Marketing**  
**Marketing Applications**  
**Marketing II**  
**Entrepreneurship 1&2**

**Computer Science I**  
**AP Computer Science**  
**Foundations of Health Science**  
**Health Science I**  
**Biomedical Technology**  
**Construction Core**  
**Carpentry I & II**  
**Automotive Service Fundamentals I,II, III**  
**Drafting I,II, III**  
**Skill Trades Pre-Apprenticeship I, II, III**

**Drone Tech I**  
**Interior design Fundamentals**  
**Interior Design Studio**  
**Sales I**  
**Sales II**



**DURHAM**  
PUBLIC SCHOOLS

Career & Technical Education

# Our Counselors

**Guiding  
Futures  
Empowering  
Dreams**



**Mr. Quenci Bradley**  
[quenci\\_bradley@dpsnc.net](mailto:quenci_bradley@dpsnc.net)  
Professional School  
Counselor  
Last Names Lo-Q



**Mr. Chris Campbell**  
[william\\_campbell@dpsnc.net](mailto:william_campbell@dpsnc.net)  
Professional School Counselor  
Last Names A-D



**Mrs. Tiffany Brooks**  
[tiffany\\_brooks@dpsnc.net](mailto:tiffany_brooks@dpsnc.net)  
Professional School Counselor  
Last Names E-Ll



**Ms. Shelby Adcock**  
[shelby\\_adcock@dpsnc.net](mailto:shelby_adcock@dpsnc.net)  
Professional School Counselor  
Last Names R-Z



# Class Schedule

Period	Class	Length
1st	Math 1	80 min
2nd	PE	80 min
STRIVE	STRIVE	40 min
3rd (includes Lunch) A Lunch 12:40-1:10 B Lunch 1:17-1:47 C Lunch 2:05-2:35	Visual Arts	120 min (includes 30 min lunch)
4th	World History	80 min

**SAMPL  
E**



**Ms. Penny Pollard**  
Registrar  
[penny\\_pollard@dpsnc.net](mailto:penny_pollard@dpsnc.net)

# REGISTRATION

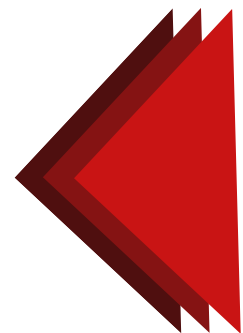
**TO ENROLL YOU MUST HAVE THE FOLLOWING:**

- **Your Child's Birth Certificate**
- **Proof of Residency**
- **Parent or Legal Guardian ID**
- **Immunization Record**

**\*\*Proof of Domicile in  
Durham County,**

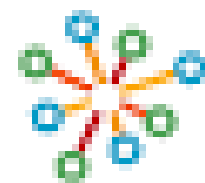
**property tax  
statement, or two  
different utility bills**

**i.e. current lease,  
rental  
agreement,  
mortgage  
statement**





# THANK YOU



DURHAM  
PUBLIC SCHOOLS

# SOUTHERN

SCHOOL OF ENERGY AND SUSTAINABILITY