

STEM at Garrett College

# Press Kit



[www.garrettcollege.edu/STEM](http://www.garrettcollege.edu/STEM)    

GARRETT COLLEGE  
  STEM

# STEM at Garrett College

## Press Kit



### COMPLEX OVERVIEW

Garrett College's Science, Technology, Engineering, and Math (STEM) building is a renovation and expansion project that includes classrooms, student study spaces, faculty offices and laboratories for physics, biology, chemistry, engineering, and robotics.

The STEM facility will attract students and faculty to Garrett College and help raise the level of science, technology, engineering, and math skills of the region's workforce. The STEM building will facilitate Garrett College's already high success rate for students who enter four-year institutions within the mathematics and science areas.

Recognizing that technology and equipment have a short life span, the Garrett College Foundation recently launched the most ambitious fundraising campaign in the history of the College, with a goal of raising \$500,000 for technology and equipment, as well as STEM scholarships. GC has already raised close to \$300,000 of the \$500,000 goal during the pre-launch stage of the campaign.

### FAST FACTS:

- ▶ \$8.526 million expansion and renovation project funded equally by the county and the state
- ▶ Construction began in May 2017 with the renovation of the College's Continuing Education building
- ▶ The STEM building is designed as a U.S. Green Building meeting Silver qualifications for Leadership in Energy & Environmental Design (LEED)
- ▶ Garrett College is currently the only higher education institution in Maryland with an Anatomage 3-D virtual dissection table, made possible in part by a matching grant from the Appalachian Regional Commission
- ▶ The "Campaign for Garrett: Realizing our Dream" has raised nearly \$300,000 of the \$500,000 fundraising goal prior to the building's grand opening
- ▶ The STEM building will host the First Tech Challenge (FTC) 2019 Worldwide Game Reveal on September 8th at 12 noon, in addition to being the host site as a state FTC qualifier in January 2019
- ▶ GC offers a variety of academic degrees and programs in the STEM field, in addition to career development training programs and industry certifications through the College's Continuing Education & Workforce Development Division



Garrett College is an accredited two-year community college located in McHenry, Maryland, overlooking Deep Creek Lake, a four-season resort destination in Western Maryland. Through both credit and non-credit programs, Garrett College serves more than 5,000 students annually.

For press and media-related inquiries, contact:

**Stacy Holler, 301-387-3045 or [stacy.holler@garrettcollege.edu](mailto:stacy.holler@garrettcollege.edu)**

[www.garrettcollege.edu/STEM](http://www.garrettcollege.edu/STEM)    

GARRETT COLLEGE  
 STEM



## PRESS RELEASE

FOR IMMEDIATE RELEASE

**DATE:** 5/9/2017  
**CONTACT:** Stacy Holler  
**PHONE:** 301-387-3045  
**EMAIL:** [stacy.holler@garrettcollege.edu](mailto:stacy.holler@garrettcollege.edu)

# Groundbreaking Ceremony Announced for STEM Building at Garrett College

**McHenry, MD** – Garrett College is honored to announce the upcoming date for the groundbreaking ceremony for the Science, Technology, Engineering, and Math (STEM) Building. The Garrett College STEM Building is a renovation of the College's existing Continuing Education building.

The groundbreaking and related activities have been scheduled for Wednesday, May 31, 2017. The ceremony will begin at 10 a.m. and will be held in Room 111 in the Garrett Information Enterprise Center Building located on the McHenry campus of the College. At 10:30 a.m., the official groundbreaking will take place outside of the Information Technology Building (Building #300), near the Bumble Bee Road parking lot. A reception will immediately follow in Room 111.

Members of the community and general public are invited and encouraged to attend this special occasion for Garrett College and Garrett County. Please RSVP to attend by Thursday, May 25, 2017 by contacting the President's Office at 301-387-3056 or email Marcia Knepp, Executive Assistant to the President at [marcia.knepp@garrettcollege.edu](mailto:marcia.knepp@garrettcollege.edu).

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If you would like more information on this topic or Garrett College, please contact Stacy Holler at 301-387-3045 or [stacy.holler@garrettcollege.edu](mailto:stacy.holler@garrettcollege.edu).



## **PRESS RELEASE**

**FOR IMMEDIATE RELEASE**

**DATE:** 5/30/2017  
**CONTACT:** Stacy Holler  
**PHONE:** 301-387-3045  
**EMAIL:** stacy.holler@garrettcollege.edu

### **Groundbreaking Ceremony held for new STEM Building at Garrett College**

**McHenry, MD** – It was an exciting moment in Garrett College history as dignitaries and special guests, as well as members of the College community, gathered on Wednesday, May 31, 2017 for an official groundbreaking of the new Science, Technology, Engineering and Math (STEM) building project currently underway at the McHenry campus of Garrett College.

Dr. Richard Midcap, President, began the ceremony with a warm welcome and recognized the efforts of those that have paved the way and contributed to make the STEM building renovation project become a reality for the College and the Garrett County community.

“The STEM Building will provide extraordinary facilities where students will receive valuable preparation in high-demand fields. It’s another great example of the state and local partnerships that fund Garrett College’s capital initiatives,” stated Midcap. “I appreciate the continued support Senator George Edwards, Delegate Wendell Beitzel, and our Garrett County commissioners provide to make projects of this kind possible.”

Kathy Meagher, Director of Campus Facilities, gave a general overview of the project and summary outlining renovation details for guests in attendance. Core members of the Garrett College STEM Design Team were also recognized for their instrumental efforts involved in the project planning, including: Christa Bowser, Carolyn Deniker, Linda Griffith, Randy Bittinger, Hugh Schrier, Eric Swearngen, and members of the facilities crew. Many other college employees were also recognized for their roles and levels of involvement assisting with and providing support for the STEM project.

Ceremony remarks were given by Vianne Bell, Board Chair of the Garrett College Board of Trustees; Senator George Edwards and Paul Edwards, Garrett County Commissioner. A reception was held after the groundbreaking ceremony. The state-of-the-art STEM facility

is planned to open in the fall of 2018. For additional information or to follow the project's progress, visit [www.garrettcollege.edu/stem](http://www.garrettcollege.edu/stem) or contact [gcstem@garrettcollege.edu](mailto:gcstem@garrettcollege.edu).

In the group photo, pictured from left to right are:

Kathy Meagher, Director of Campus Facilities, Garrett College; Paul Edwards, Chairman, Garrett County Commissioners; Senator George Edwards; Nicole Christian, President & CEO, Garrett County Chamber of Commerce; James Hinebaugh, Garrett County Commissioner; Larry Tichnell, Garrett County Commissioner; Dave Madden, President, Harbel, Inc.; Shane Grady, Chair, Garrett County Chamber of Commerce Board of Directors; Delegate Wendell Beitzel; Hugh Schrier, Plant Manager, Garrett College; Richard Midcap, President, Garrett College; Robin Summerfield, Field Representative to United States Senator Ben Cardin; Eric Swearngen, Mechanical Systems Supervisor/Chief Electrician, Garrett College; Julianna Albowicz, Field Representative to United States Senator Chris Van Hollen; Vianne Bell, Chair, Garrett College Board of Trustees; Brian Walbridge, Project Architect, Grimm & Parker Architects; Rick Morrison, Project Manager, Grimm & Parker Architects.

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## PRESS RELEASE

FOR IMMEDIATE RELEASE

**DATE:** 5/16/2017  
**CONTACT:** Stacy Holler  
**PHONE:** 301-387-3045  
**EMAIL:** stacy.holler@garrettcollege.edu

# Construction Underway at Garrett College for STEM Building

**McHenry, MD** – Construction has officially begun at the McHenry campus at Garrett College in preparation for the new Science, Technology, Engineering and Mathematics (STEM) building. The STEM building is a renovation of the College's existing Continuing Education building (building 200) and the interior will be completely renovated. The new facility is projected to open in the fall of 2018.

A groundbreaking ceremony for the new STEM building is planned for Wednesday, May 31, 2017 at 10 a.m. Members of the community and the general public are encouraged and invited to attend. Please RSVP by Thursday, May 25, 2017 by contacting the President's Office at 301-387-3056 or email Marcia Knepp, Executive Assistant to the President at [marcia.knepp@garrettcollege.edu](mailto:marcia.knepp@garrettcollege.edu).

Please pardon our progress during the upcoming renovation and construction phases. For more information, please contact [gcstem@garrettcollege.edu](mailto:gcstem@garrettcollege.edu) or visit [www.garrettcollege.edu/stem](http://www.garrettcollege.edu/stem).

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If you would like more information on this topic or Garrett College, please contact Stacy Holler at 301-387-3045 or [stacy.holler@garrettcollege.edu](mailto:stacy.holler@garrettcollege.edu).



## PRESS RELEASE

FOR IMMEDIATE RELEASE

**DATE:** 5/23/2018  
**CONTACT:** Stacy Holler  
**PHONE:** 301-387-3045  
**EMAIL:** stacy.holler@garrettcollege.edu

### **State officials tour Garrett College's STEM Building** *Secretary Brinkley hails facility for role it will play in workforce development*

**McHenry, MD** – David R. Brinkley, Maryland's secretary of budget and management, said Garrett College's new Science, Technology, Engineering and Math Building will provide the tools necessary for "reeducating our workforce for the new economy."

Brinkley, who was at the college Wednesday morning to tour the STEM Building that will open at the end of this summer, said the \$8.526 million facility also reflects "Governor [Larry] Hogan's commitment to making sure Western Maryland's needs are addressed." The state and Garrett County each provided 50 percent of the project's funding.

Local legislators said the state aid contributed to the STEM project was illustrative of the Hogan Administration's commitment to Western Maryland.

"We're really appreciative of the support Governor Hogan, Secretary Brinkley and the entire administration has given to projects in Western Maryland," said Delegate Wendell Beitzel (R-1A).

"The secretary coming here today shows the state's commitment to making sure Western Maryland is on a level playing field with the rest of the state," added Senator George Edwards (R-1).

Garrett College's STEM Building is a renovation and expansion project that includes classrooms, student spaces, faculty offices and laboratories for physics, biology, chemistry, engineering, and robotics.

A grand opening ceremony will take place on Saturday, September 8<sup>th</sup> to coincide with the First Tech Challenge (FTC) 2019 robotics game release. Garrett College will be hosting a state FTC qualifier in January 2019.

**PHOTO:**

David R. Brinkley, Maryland's secretary of budget and management (center), is pictured with GC's president Dr. Richard Midcap (far left), Delegate Wendell Beitzel (R-1A), Senator George Edwards (R-1), and Kathy Meagher, GC's director of facilities (far right), during a tour of the College's new STEM building that will open at the end of this summer. A grand opening ceremony will take place on Saturday, September 8<sup>th</sup> to coincide with the First Tech Challenge (FTC) 2019 robotics game release.

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If you would like more information on this topic or Garrett College, please contact Stacy Holler at 301-387-3045 or [stacy.holler@garrettcollege.edu](mailto:stacy.holler@garrettcollege.edu).



## EVENT ALERT

FOR IMMEDIATE RELEASE

**DATE:** 7/30/2018  
**CONTACT:** Stacy Holler  
**PHONE:** 301-387-3045  
**EMAIL:** [stacy.holler@garrettcollege.edu](mailto:stacy.holler@garrettcollege.edu)

### GC to celebrate STEM Grand Opening on September 8<sup>th</sup>

**McHENRY, Md.** – Garrett College will host a STEM Building Grand Opening on September 8<sup>th</sup> starting at 9 a.m. Local and regional media may contact Stacy Holler (301-387-3045 or [stacy.holler@garrettcollege.edu](mailto:stacy.holler@garrettcollege.edu)) for assistance with any media-related inquiries.

#### STEM Grand Opening Events Schedule

9:00 a.m. Grand Opening Ceremony – Guest Speakers/Special Recognition  
10:00 a.m. Ribbon Cutting: STEM Building  
Ribbon Cutting: Specific Named Rooms/Study Areas  
10:30 a.m.-12 noon STEM Building Self-Guided Tours (*Maps Available*)  
Open Reception  
Classroom/Lab Q & A and related activities with GC Faculty

U.S. Senator Christopher Van Hollen, Jr. (D-MD) has committed to attend and speak at the event. Maryland Governor Larry Hogan (R), U.S. Senator Benjamin L. Cardin (D-MD), and U.S. Representative John Delaney (D-6<sup>th</sup>) have also been invited to speak.

State Senator George Edwards (R-1<sup>st</sup>) and State Delegate Wendell Beitzel (R-1A) – who played pivotal roles in the securing of the 50 percent share of state funding – are also among the speakers. Garrett County Commissioners Paul Edwards (R), Jim Hinebaugh (R) and Larry Tichnell (R) – who approved the 50 percent share of local funding – will all attend, with Commission President Edwards speaking on behalf of the commissioners.

After the official Grand Opening, the STEM Building will play host to the First Tech Challenge 2019 Worldwide Game Reveal at noon. Local teams of 7<sup>th</sup>-to-12<sup>th</sup>-graders will view the video feed to learn the topic of the 2019 competition, which will include a qualifying tournament next January at Garrett College. FTC participants will spend the afternoon brainstorming, attending workshops and taking advantage of free recreational opportunities in the Community Aquatic and Recreation Center.

The September 8<sup>th</sup> Grand Opening Ceremonies take place in Room 201 of the STEM Building, but the event will also be streamed live in other STEM classrooms in case of an overflow audience. Anyone who has an interest in the event, but cannot attend, may view it streaming live on the college website at <https://www.garrettcollege.edu/stem>.

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## PRESS RELEASE

FOR IMMEDIATE RELEASE

**DATE:** 8/20/2018  
**CONTACT:** Stacy Holler  
**PHONE:** 301-387-3045  
**EMAIL:** stacy.holler@garrettcollege.edu

### **Garrett College STEM Grand Opening is September 8<sup>th</sup>** *Senators Cardin, Van Hollen among speakers at unveiling of impressive facility*

**McHenry, MD** – Garrett College will officially open its \$8.526 million STEM Building on Saturday, September 8<sup>th</sup> with guest speakers that include both of the state’s U.S. Senators and will feature demonstrations of some of the building’s most impressive capabilities.

Senators Christopher Van Hollen, Jr. and Ben Cardin will speak on behalf of the federal government during the STEM Building Grand Opening, which starts at 9 a.m. and is open to the general public. Senator George Edwards and Delegate Wendell Beitzel will represent the state. Garrett County Commissioners President Paul Edwards will speak on behalf of the commissioners, with several speakers representing the college, including President Richard Midcap and Chief Academic Officer Qing Yuan.

“This facility – which was only made possible by multi-million-dollar commitments from both the county and the state – provides students in STEM programs and courses with an impressive and well-conceived location for learning,” said Dr. Midcap. “I think our students as well as our faculty are going to thrive in this facility.”

According to Dr. Qing Yuan, Garrett’s graduates will be more prepared for today’s competitive STEM field– either by transferring to a four-year institution to further one’s education, or by entering the workforce directly.

“This long-awaited moment is finally happening!” Dr. Yuan stated. “I can’t express enough gratitude and appreciation to all the people who made the dream become a reality. This building will provide memorable teaching and learning experiences for both faculty and students at GC.”

The Grand Opening will include a traditional ribbon-cutting for the facility along with ribbon-cuttings for specific rooms and spaces named in honor of STEM-related donors.

Those naming donations are part of a STEM fundraising campaign, which will also be highlighted as part of the ceremony.

Garrett College's STEM Building is a renovation and expansion project that includes classrooms, student spaces, faculty offices and laboratories for physics, biology, chemistry, engineering, and robotics. GC faculty who will teach in the STEM Building said they are excited about what the new facility brings to the college.

"The STEM Building is a versatile, spacious facility that is really conducive to learning," said Carolyn Deniker, a biology professor at GC. "One of the most impressive features is the ease in which traditional lecture space can in a matter of minutes be transformed into a space that encourages small-group activities and interactions."

Christa Bowser, an associate professor of biology, said the inclusion of prep space missing from previous lab facilities is one of the most practical upgrades that was made.

"It's going to make teaching more efficient," said Bowser. "When you have 10 minutes between classes there will no longer be a need to panic – you can prep for the classes ahead of time and be ready to work."

Linda Griffith, a GC professor of science, said the new facility provides an impressive learning environment.

"The labs have work areas and equipment specifically designed for working in the 21<sup>st</sup> century," said Griffith. "Sitting in one of these classrooms or working in one of these labs will be a great experience."

Bowser agreed, saying the STEM Building project has resulted in space that is appropriate to its mission.

"That space looks and operates like a modern collegiate space," she said.

While practical, the STEM project comes along with some interesting "bells and whistles," according to faculty. An Anatomage 3-D virtual dissection table, made possible in part by a matching grant from the Appalachian Regional Commission, is one of those state-of-the-art upgrades. The table includes four digital human cadavers, providing a realism not possible with your typical dissection aides.

Garrett College is currently the only higher education institution in Maryland to house the cutting-edge equipment to aid in instruction and student learning.

"Instead of some plastic, idealized anatomical display, you are seeing real human digital images with realistic anomalies that enhance the learning experience," said Deniker, who noted the 3-D virtual dissection table will be one of the featured faculty demonstrations as part of the Grand Opening.

Bowser said the building design “encourages students to engage with one another and with faculty.” She indicated the inclusion of multiple student spaces and study rooms should quickly make the STEM Building one of the students’ favorite campus buildings.

While the morning focus is on the college, the STEM Building will host a community event immediately following the grand opening. The college is hosting local robotics teams for the First Tech Challenge (FTC) 2019 worldwide robotics game release, which takes place at noon. Garrett College will also be hosting a state FTC qualifier in January 2019.

The September 8<sup>th</sup> Grand Opening Ceremonies take place in Room 201 of the STEM Building, but the event will also be streamed live in other STEM classrooms in case of an overflow audience. Anyone who has an interest in the event, but cannot attend, may view it streaming live on the college website at <https://www.garrettcollege.edu/stem>.

#### **PHOTO CUTLINE:**

STEM faculty at Garrett College are ready to welcome the college’s new STEM building, just in time for the upcoming fall semester. The official grand opening for the STEM facility is set to take place on Saturday, September 8<sup>th</sup>.

Front row (left to right) are: Kevin Dodge, director of natural resources and wildlife technology; Carolyn Deniker, professor of biology; Christa Bowser, associate professor of biology, and Linda Griffith, professor of sciences. Back row are: Jeff Reitz, professor of mathematics; Tim Foster, professor of mathematics; Richard Lewis, assistant professor of computer science, and Peter Skylstad, associate professor of natural resources and wildlife technology.

Absent from the photo is Paul Rached, assistant professor of electrical engineering.

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## PRESS RELEASE

FOR IMMEDIATE RELEASE

**DATE:** 8/9/2018  
**CONTACT:** Stacy Holler  
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### **GC Foundation holds STEM campaign kick-off**

*Carissa Rodeheaver and Rosie Versteegen selected to co-chair \$500K campaign*

**McHENRY, Md.** – The Garrett College Foundation officially launched a campaign to raise \$500,000 for STEM-related equipment and scholarships on Sunday evening at a kick-off event held at the Versteegen farm in McHenry.

The event included the announcement of campaign co-chairs and an update on pre-launch donations. First United Bank & Trust President Carissa Rodeheaver and Dr. Rosie Versteegen – who hosted Sunday’s event along with her husband, Piet – will serve as co-chairs for the campaign.

“The addition of a state-of-the art STEM building to Garrett College is an exciting event for Garrett County,” Carissa Rodeheaver stated. “I am honored to be part of this initiative as we create a better opportunity for students aspiring to a career in these fields. My hope is that students will start their education at Garrett College and will put their skills to work in a future career in Garrett County.”

The initiative – officially called “The Campaign for Garrett: Realizing our Dream” – has already raised more than half of the \$500,000 goal in advance of Sunday’s launch.

“The outpouring of support for this initiative even before we officially launched it has been impressive,” said Dr. Richard Midcap, Garrett College’s president. This is an aptly named campaign – our goal with the STEM campaign is to help deserving students achieve their dream of accessible, high-quality STEM educations while employing the most current equipment in the field.

“I’m confident Carissa and Rosie will provide the leadership we need to reach our ambitious campaign goal,” added Midcap.

“Recognizing the importance of STEM education from both an overall and a personal standpoint, I am delighted to support the Garrett College Foundation in its effort to ensure this opportunity for our children,” noted Dr. Rosie Versteegen.

The campaign, coincides with the opening of the college’s new Science, Technology, Engineering and Math (STEM) Building, an \$8.526 million expansion and renovation project funded equally by the county and the state. The facility – which includes classrooms, student spaces, faculty offices and laboratories for physics, biology, chemistry, engineering, and robotics – will be featured in a public grand opening on Saturday, September 8<sup>th</sup> at 9 a.m.

“This fundraising endeavor is the most ambitious in Garrett College’s history,” stated Cherie Krug, executive director of the GC Foundation. “Campaign gifts are going into an endowment to be utilized by the College to help maintain the facility’s state-of-the-art equipment and fund scholarships for students in STEM fields.”

“As we all know, technology has a short lifespan,” said Midcap. “And while public funding paid for most of our initial STEM equipment, we are trying to proactively plan to keep that equipment current as technology evolves. We also want to ensure financial need does not prevent deserving students from pursuing STEM education, which is why this campaign also has a scholarship component.”

Krug said that major donors who have committed to investing in the STEM campaign will be publicly announced and recognized as part of the September 8<sup>th</sup> Grand Opening. More than a dozen major donors have already made naming gifts – including naming of rooms and student study spaces in the new facility – and more are anticipated as part of the public phase of the campaign.

In addition to announcing campaign co-chairs and recognizing pre-launch donors, the public launch included acknowledgement of those who participated in a campaign feasibility study as well as those who took part in campaign planning. The campaign grew out of a feasibility study by Teeter Associates (Greensburg, Pa.) that the GC Foundation commissioned.

Midcap praised Rodeheaver and Versteegen as “two individuals who bring a real passion for STEM and a commitment to education.” Rodeheaver already serves as vice chair of the GC Foundation Board while Versteegen is a Foundation Board member.

Rodeheaver is chairman of the board, president and chief executive officer for First United Bank & Trust, a publicly traded bank whose headquarters are in Oakland, Md. She is passionate about customizing financial solutions for customers throughout Maryland, West Virginia and Pennsylvania, having worked in the banking industry for over 26 years.

Rodeheaver is also an avid supporter of the financial industry through her involvement as chairman-elect for the Maryland Bankers Association, vice-chair for the American Bankers

Association BankPac Committee, and member of the Maryland Bankers Association Council for Professional Women in Banking and Finance Advisory Council.

Locally, Rodeheaver serves on boards for the Garrett Development Corporation and Western Maryland Health Systems, and is a member of the Oak Grove Church of the Brethren. A certified public accountant, Rodeheaver earned a bachelor's of science degree in accounting from the University of Maryland at College Park.

Versteegen received her bachelor's of science and doctorate degrees in biochemistry from Glasgow University in Scotland. She held postdoctoral scholarships at Cambridge University in England and the National Institutes of Health (NIH), working in the area of disease research.

Following several years in NIH-sponsored cancer research programs, Versteegen joined Life Technologies and held various vice presidential roles, both technical and business oriented, including the GIBCO Manufacturing Facility, regulatory affairs, new business development and strategic planning.

During that time, Versteegen was responsible for the development of the first approved DNA-based diagnostic for the detection of HPV. In 2000, Versteegen became a founding partner of the Lifa Group, a consulting organization focused on helping life science and biotechnology companies grow through clearly enunciated, actionable strategic plans.

Since its inception in 2006, Versteegen has been the chief executive officer of the International Serum Industry Association, a global life science not-for-profit association. The mission of the association is to establish, promote and assure compliance with uncompromised standards of excellence and ethics in the business practices of the global animal serum and animal derived products supply industry.

“Carissa and Rosie are accomplished individuals who are well-known and well-respected in our community,” said Midcap. “We couldn’t ask for a better pair of co-chairs for this campaign.”

For additional information on the STEM campaign or on giving to the endowment, persons may contact the Garrett College Foundation Office at 301-387-3100.

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If you would like more information on this topic or Garrett College, please contact Stacy Holler at 301-387-3045 or [stacy.holler@garrettcollege.edu](mailto:stacy.holler@garrettcollege.edu).

# STEM at Garrett College

## Academic Degrees and Programs



### Computer Science

#### A.S. DEGREE

This degree is designed to prepare students to transfer to a four-year institution to obtain a bachelor's degree in a computer related field. These fields include Computer Science, Information Systems, Information Technology, and Secure Computing.

### Cybersecurity

#### A.A.S. DEGREE or Certificate

*with Network Administration concentration*

#### A.A.S. DEGREE

Students can pursue an A.A.S. degree or a certificate in cybersecurity. Students also have the option of taking the Network Administration concentration of the A.A.S. degree. This concentration focuses on the creation and maintenance of computer networks.

All of GC's cybersecurity programs are designed to prepare students to enter the workforce in the cybersecurity industry.

### Electrical Engineering

#### A.S.E. DEGREE

The electrical engineering curriculum is built around a strong basic core of mathematics, the sciences including chemistry and physics, and computer technology. The program provides students hands-on experience in the design, development, implementation, and management of projects and in the communication and presentation of their ideas and project plans. Graduates may choose to continue learning at a four-year institution or begin in their chosen career.

### Mathematics/Science concentration

#### A.A. DEGREE

This concentration is for those interested in majoring in biology, chemistry, engineering, mathematics, or physics. Students seeking to transfer to pre-professional programs such as pre-medicine, pre-veterinarian, pre-pharmacy, and other health and science programs are encouraged to consider this pathway.

### Natural Resources & Wildlife Technology

#### A.A.S. DEGREE

One of GC's signature programs, the Natural Resources & Wildlife Technology program presents the perfect opportunity for individuals who are passionate about hunting, hiking, fishing, and the outdoors.

Students benefit from practical, field-based instruction including hands-on classes with advanced technology. Graduates are prepared for a career in many fields, such as: parks and recreation, fisheries management, forestry, soil and water conservation, and environmental and ecological restoration.

### Transfer Prep Programs

Garrett College offers several preparatory programs designed to provide general education coursework for students planning to transfer to another institution. A degree is not issued from Garrett College; students must apply to their transfer institution for acceptance into the desired program.

- Dental Hygiene
- Medical Assistant
- Medical Laboratory Technician
- Nursing
- Occupational Therapy Assistant
- Physical Therapist Assistant
- Radiologic Technology
- Respiratory Therapist



301.387.3000

www.garrettcollege.edu



GARRETT COLLEGE



# Continuing Education & Workforce Development Programs



## **Certified Clinical Medical Assistant (CCMA)**

Program prepares students to work in a variety of medical facilities including a doctor's office, urgent care facilities, and hospitals as a CCMA. GC's program can be completed in 12 months and includes an externship at various medical facilities.

*Certifying Professional Association:*  
National Healthcareer Association (NHA)

## **Certified Medical Administrative Assistant (CMAA)**

Learn the skills needed to serve patients by being the first person to greet them when they arrive in a medical facility, scheduling appointments, maintaining records and patient accounts. This program can be completed in 4-6 months and includes an externship.

*Certifying Professional Association:*  
National Healthcareer Association

## **Certified Nursing Assistant (CNA)**

Certified Nursing Assistants (CNA) work in entry-level positions in all aspects of healthcare, including medical offices, home healthcare agencies, and hospital settings. The State of Maryland regulations require that those who perform nursing tasks, delegated by a nurse for compensation, must complete an approved CNA course of study to be certified by the Maryland Board of Nursing. GC's program can be completed in 2-3 months.

*Certifying Professional Association:*  
Maryland Board of Nursing

## **Emergency Medical Technician (EMT)**

Garrett's paramedic program is nationally accredited by the Commission on Accreditation of Allied Health Education Programs upon the recommendation of the Committee on Accreditation of Educational Programs for the

Emergency Medical Services Professions.

Paramedics are allied health professionals whose primary focus is to provide advanced emergency medical care for critical and emergent patients who access the emergency medical system (EMS). Acting as a link from the scene to the healthcare system, paramedics function as part of the comprehensive EMS response, under medical oversight.

This program can be completed in two years. Students are required to have a minimum of 465 hours of clinical experience.

*Certifying Professional Association/Agency:*  
National Registered Paramedic (NRP) and Maryland Cardiac Rescue Technician (CRTI)

## **Machining – Manual and CNC**

Garrett's training program is designed to prepare students for a career in manual and CNC machining using classroom instruction, computer based training and extensive hands-on experience. Students are able to complete the entire program or take individual classes based on prior learning and credentialing goals. The program can be completed in 12-18 months.

*Certifying Professional Association/Agency:*  
National Institute of Metalworking Skills (NIMS)

## **Medical Coding & Medical Billing**

The medical billing and coding profession is one of the fastest-growing careers in the healthcare industry today! Garrett's billing and coding program delivers the skills students need to solve insurance billing and coding problems. It details proper assignment of codes and the process to file claims for reimbursement.

*Certifying Professional Association/Agency:*  
American Academy of Professional Coders (AAPC) and American Health Information Association (AHIMA)

## **Phlebotomy – Venipuncture Technician**

Students will be prepared for entry-level employment in various medical facilities including hospitals, doctor's offices, and medical laboratories. Instruction for the program is provided by licensed health care professionals. GC's program can be completed in 6 months and requires an externship.

*Certifying Professional Association:*  
National Healthcareer Association (NHA)

## **Veterinary Assistant**

GC's program meets the National Association of Veterinary Technicians of America (NAVTA) guidelines and requirements for clinical experiences, certifications/licensing of instructors, and curriculum content. Clinical experience is scheduled throughout the program at various animal care facilities. This program can be completed in 6 months. Students will be prepared to work in an entry-level position or continue training to earn an A.A. degree as a veterinary technician.

*Certifying Professional Association:*  
National Association of Veterinary Technicians of America (NAVTA)

## **Welding**

Through classroom, hands-on experience in a welding shop, and independent computer-based training (CBT), students will be prepared to work in the welding industry and earn certification from the American Welding Society. Students can complete the entire program or take individual classes based on prior learning and/or credentialing goals. GC's program can be completed in 10-12 months.

*Certifying Professional Association/Agency:*  
American Welding Society (AWS)

# STEM Faculty at Garrett College



**Christa Bowser**  
Associate Professor of Biology

M.S., Ohio University  
B.A., Alderson Broaddus University  
Academic Area: Biology



**Carolyn Deniker**  
Professor of Biology

M.Ed., University of Maryland  
M.Ed., B.S., Frostburg State University  
Academic Area: Biology, Human Anatomy & Physiology



**Kevin Dodge**  
Director of Natural Resources & Wildlife Technology

M.S., Michigan Technological University  
B.S., Southwest Missouri State University  
Academic Area: Natural Resources & Wildlife Technology



**Tim Foster**  
Professor of Mathematics

M.S., B.S., Frostburg State University  
A.A., Garrett College  
Academic Area: Mathematics

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# STEM Faculty continued...



**Linda Griffith**  
Professor of Science

M.S., West Virginia University  
B.S., Fairmont State University  
Academic Area: Chemistry, Physics



**Richard Lewis**  
Assistant Professor of Computer Science

M.S., B.S., Frostburg State University  
Academic Area: Business & Information Technology,  
Computer Science, Cybersecurity



**Paul Rached**  
Assistant Professor of Electrical Engineering

M.S., B.S., University of North Carolina - Charlotte  
Academic Area: Engineering



**Jeff Reitz**  
Professor of Mathematics

Ph.D., M.A., State University of New York  
B.S., Penn State University • A.S., Temple University at Ambler  
Academic Area: Mathematics



**Peter Skylstad**  
Associate Professor of Natural Resources  
& Wildlife Technology

M.S., B.S., Texas Tech University  
Academic Area: Biology, NRWT

**LEGEND**

- Laboratory**
- Classroom**
- Faculty Office**



GARRETT COLLEGE

STEM

◀ Entrance - IT Building #300

▲ Parking lot A Entrance

- |   |  |   |   |
|---|--|---|---|
| <ul style="list-style-type: none"> <li>201 Classroom</li> <li>202 Classroom</li> <li>203 Learning Lounge</li> <li>205 Wet Classroom</li> <li>206 Classroom</li> <li>210 Adjunct Office Space</li> <li>211 Conference Room (16)</li> <li>213 Work Room/Copier</li> </ul> | <ul style="list-style-type: none"> <li>214 Break Room</li> <li>215 Faculty Office (C. Deniker)</li> <li>216 Faculty Office (T. Foster)</li> <li>217 Faculty Office (C. Bowser)</li> <li>218 Faculty Office (L. Griffith)</li> <li>219 Faculty Office (VACANT)</li> <li>220 Conference Room (6)</li> <li>221 Faculty Office (J. Reitz)</li> </ul> | <ul style="list-style-type: none"> <li>222 Faculty Office (P. Rached)</li> <li>224 Student Tutoring Area</li> <li>226 Family Restroom</li> <li>228 Women's Restroom</li> <li>229 Men's Restroom</li> <li>230 Engineering/Robotics Lab</li> <li>231 Robotics Display Area</li> <li>232 Group Study Room</li> </ul> | <ul style="list-style-type: none"> <li>233 Student Study Area</li> <li>234 Student Laptop/Break Area</li> <li>240 Physics/Earth Science Lab</li> <li>241 Chemistry/Microbiology Lab</li> <li>242 Biology Lab</li> <li>243 Main Lobby</li> </ul> |
|---|--|---|---|

## STEM at Garrett College

### Academic Degrees and Programs

#### Computer Science

**Cybersecurity** *with Network Administration Concentration*

#### Electrical Engineering

**Mathematics/Science Concentration**

**Natural Resources & Wildlife Technology**

#### Transfer Prep Programs

- ▶ Dental Hygiene
- ▶ Medical Assistant
- ▶ Medical Laboratory Technician
- ▶ Nursing
- ▶ Occupational Therapy Assistant
- ▶ Physical Therapist Assistant
- ▶ Radiologic Technology
- ▶ Respiratory Therapist

### Continuing Education & Workforce Development Programs

**Certified Clinical Medical Assistant (CCMA)**

**Certified Medical Administrative Assistant (CMAA)**

**Certified Nursing Assistant (CNA)**

**Emergency Medical Technician (EMT)**

**Machining – Manual and CNC**

**Medical Coding & Medical Billing**

**Phlebotomy – Venipuncture Technician**

**Veterinary Assistant**

**Welding**



# GRAND OPENING

of the Garrett College STEM Building



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[www.garrettcollege.edu/STEM](http://www.garrettcollege.edu/STEM)    

# EVENT PROGRAM

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## STEM Classroom - Room #201

### 9:00 a.m. Welcome, Introductions & Project Summary

Dr. Richard Midcap  
*President, Garrett College*

### 9:10 a.m. Guest Speakers

- Mr. Don Morin  
*Chair, Garrett College Board of Trustees*
- The Honorable Ben Cardin  
*United States Senator*
- The Honorable Chris Van Hollen  
*United States Senator*
- The Honorable Kelly M. Schulz  
*Maryland Secretary of Labor, Licensing, & Regulation*
- The Honorable George C. Edwards  
*Maryland Senator*
- The Honorable Wendell Beitzel  
*Maryland Delegate*
- The Honorable Paul Edwards  
*Chairman, Garrett County Board of Commissioners*
  - The Honorable James Hinebaugh  
*Garrett County Commissioner*
  - The Honorable Larry Tichnell  
*Garrett County Commissioner*
- Dr. Qing Yuan  
*Dean of Academic Affairs, Garrett College*

### 9:50 a.m. Special Recognitions and Closing Remarks

Dr. Richard Midcap

## STEM Main Lobby

### 10:00 a.m. Ribbon-Cutting Ceremonies

- **STEM Building**  
All Speakers and Dignitaries
- **STEM Room Dedications**  
Donors and Foundation Representatives

## STEM Building - 10:15 a.m. - 12:00 p.m.

### Meet-and-Greet with STEM Faculty

All STEM classrooms and labs - See Building Layout Map

### Reception/Refreshments - Room #205

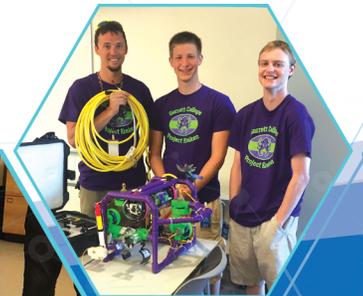
### Self-Guided Tours

See Building Layout Map available throughout the building

## GC Auditorium, Room #715

### 1:00 p.m. Apollo 13 Movie Showing

Free and open to the public



# You're Invited to the GRAND OPENING

of the Garrett College STEM Building

**Saturday • 09/08/18 • 9:00am**



[www.garrettcollege.edu/STEM](http://www.garrettcollege.edu/STEM)    

GARRETT COLLEGE  
 STEM

# Grand Opening Event Schedule

## STEM GRAND OPENING EVENTS

**9:00am** Grand Opening Ceremony with Guest Speakers and Special Recognitions

**10:00am** Ribbon Cutting for Building and Specific Room/Study Area Namings

**10:30am - 12:00pm**

- STEM Building Self-Guided Tours (Maps available)
- Reception
- Classroom/Lab Q&A with Garrett College Faculty
- Miscellaneous STEM Activities

## FIRST TECH CHALLENGE EVENTS

**12:00pm** FIRST Tech Challenge Kickoff  
(Live video feed/Video reveal)

**12:30pm - 4:00pm** FIRST Tech Challenge Activities  
(Lunch, brainstorming, workshops, CARC activities)



[www.garrettcollege.edu/STEM](http://www.garrettcollege.edu/STEM)    



# 2018 STEM Homeschool Courses



SEPTEMBER 21 & SEPTEMBER 28

	Age Group	9:00-10:15 A.M.	10:15-10:45	10:45-12:00noon
Friday, Sept. 21	Age 6-10	What's Your Angle	Break	Google Expeditions & Maps
	Age 11-18	Google Expeditions & Maps	Break	Transformational Geometry
Friday, Sept. 28	Age 6-10	Microscopic Life	Break	Essential Robotics
	Age 11-18	Engineering & Robotics	Break	Microscopic Life

## Microscopic Life is Everywhere (age 6-10 & 11-18)

Instruction will focus on identifying the parts of the microscope and its proper use. Students will then have the opportunity to prepare a slide of their own cheek cells to observe under the microscope. A variety of other pre-prepared slides (onion cells, blood smears, etc.) will also be available for view. The course is being instructed by Professor Christa Bowser, who teaches numerous biology and chemistry courses at Garrett College.

## Google Expeditions Virtual and Augmented Reality Program & Google Earth (age 6 - 10 & 11 - 18)

Travel the world and bring lessons to life with the power of virtual reality. The immersive learning experience allows the class to explore interesting sights through 360 degree and 3D images. Using the brand new augmented reality pioneer program, the class will have the opportunity to swim with sharks and look inside of a volcano. Students will also explore landmarks, parks, museums, and important world cultural spots using Google Earth. Karen Wood, an Agent Associate for the University of Maryland Extension will be instructing the course.

## What's Your Angle? (age 6-10)

Students will be introduced to geometric connections in the physical world. Included will be discussion on terminology and exploring the different types of angles culminating with creating a one-of-a-kind piece of artwork. Instructing this course will be Karen Linton, who is an adjunct math and reading instructor for Garrett College.

## Transformational Geometry: Create an Animation (age 11-18)

Students will work as a team and stretch their creativity to create an animation (flip book) using the concepts of translation, reflection and rotation, on a coordinate grid. Once the flip book is created, students will have gained an understanding of what animators do to create many of the cartoons and movies that we watch every day. Instructing this course will be Karen Linton, who is an adjunct math and reading instructor for Garrett College.

## Essential Robots (ages 6-10)

Robots have become part of our everyday lives. Students will discover what makes a machine a robot, and learn what all robots have in common. Students will modify their own LEGO Sumo-wrestling robot, and then have fun seeing which changes are most effective. This class is being instructed by Phil Malone who has a 25 year career in robotics, and has mentored youth robotics teams for 12 years.

## Engineering and Robotics (ages 11-18)

Engineers take new ideas and combine them in unique ways to create innovative solutions to challenging problems. Students will be introduced to the wide variety of Engineering fields and the types of projects they might involve. Students will work in groups to engineer improvements to a LEGO Sumo-wrestling robot and then test it on the competition ring. This class is being instructed by Phil Malone who has a 25 year career in robotics, and who created the GEARS (robotics) center in Accident MD.

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- ▶ Price: \$39 p/p, all inclusive of the 4 courses (5 hours)
- ▶ No single course registration permitted
- ▶ Seating is limited, so please register early
- ▶ Registration deadline: Friday September 14
- ▶ To register: 301-387-3069 or [cewd@garrettcollege.edu](mailto:cewd@garrettcollege.edu)