

NEW VISIONS: APPLIED ENGINEERING PROGRAM

NVAE (North & South)

APPLICATION PACKET

UPDATED 1/21/21

The New Visions: Applied Engineering Program is an application-based, rigorous one-year exploratory program for select college-bound seniors planning to major in a field of study in Engineering and/or related fields. The academic curriculum is combined with practical, applied work experience as students engage in STEM concepts at the CV-TEC Main (North) and CV-TEC Mineville (South) campuses and at the Institute of Advanced Manufacturing (IAM) and through clinical observations with business & industry partners in the field. The program incorporates dual enrollment in college and high school credit-bearing coursework with career exploration and Work-Based Learning (WBL) experiences in Applied Engineering. Students will participate in daily half-day sessions for the course of the school year during their Senior Year. The purpose of this program is to increase student success when determining a college major and career pathway in the field of Engineering and/or related fields.

ELECTRONIC SUBMISSION ONLY:

Ms. Debbie Geddes, CV-TEC Student Services

geddes_debbie@cves.org

Application Deadline: Friday, March 19, 2021

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Information for Candidates and Parents

Description:

The New Visions: Applied Engineering Program is an application-based, rigorous one-year exploratory program for select college-bound seniors planning to major in a field of study in Engineering and/or related fields. The academic curriculum is combined with practical, applied work experience as students engage in STEM concepts at the **CV-TEC Main (North) and CV-TEC Mineville (South) campuses, at the Institute of Advanced Manufacturing (IAM)** and through clinical observations with business & industry partners in the field. The program incorporates dual enrollment in college and high school credit-bearing coursework with career exploration and Work-Based Learning (WBL) experiences in Applied Engineering. Students will participate in daily half-day sessions for the course of the school year during their Senior Year.

The program has two locations: The **CV-TEC Plattsburgh Main Campus** in the North, and the **CV-TEC Mineville Campus** in the South; each with dual credit options at both Clinton Community College and North Country Community College, respectively.

Qualifications for Admission:

CV-TEC will enroll up to 12 seniors per location in the New Visions: Applied Engineering Program. We encourage highly motivated, adaptive, high school juniors to apply.

Applicants **MUST**:

- have a minimum of 3 years of Regents Math (or equivalent) and;
- have a minimum of 3 years of Regents Science (or equivalent) and;
- have a cumulative average of 85% or higher and;
- be interested in a post-secondary program in the field of or related to Engineering and;
- good communication skills; i.e., writing, speaking, listening;
- highly recommended: pre-calculus

Students who wish to apply need to complete a competitive application process that includes submission of references, an interview and an essay. All components of the application MUST be completed in their entirety and submitted by the posted deadline for consideration.

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Application Directions

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STEP 1:

To the Applicant:

1. Complete the Student Data Form (included in this packet).
2. Email enclosed teacher evaluations to the respective teachers and ask them to email the completed forms promptly to your high school counselor.
3. Write an essay following the guidelines included in this packet.
4. Electronically return the completed application to your high school counselor.

To the School Counselor:

1. Complete the counselor recommendation.
2. Provide the applicant's transcript, including grades for junior year courses in progress.
3. Provide current Class Rank (Standing)
4. Receive two teacher evaluations/recommendations (emailed directly from the teacher (at the applicant's request) to the school counselor)

Electronic Submission ONLY:

Home School Counselor to submit electronically one email per applicant. Applications will only be accepted and reviewed if sent by the School Counselor and is complete. Each application must include the following items:

1. Completed Student Data Form
2. Two Teacher Evaluations/Recommendations
3. School Counselor Recommendation
4. Transcript
5. Current Class Rank (Standing)
6. Student Essay (See Guidelines)
7. Send the completed application by March 19, 2021 to: geddes_debbie@cves.org

STEP 2:

Student Interview: Applicants who meet the initial candidacy requirements will be scheduled for an interview. Students should allow approximately 30 minutes for the interview process.

STEP 3:

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Notification of Acceptance: Applicants and their counselors will receive notification of acceptance by June 15, 2021.

Student Data Form

STUDENT DATA FORM

Student Name		
Address		
	Student E-Mail	
		Student Cell Phone
Parent(s)/Guardian(s)		Relationship to student:
Parent/Guardian Phone		
Home School District		
Home School Counselor		
Home School Counselor Work Phone Number		

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Essay Guidelines

Please prepare a 200-300 word essay: ***Why do you believe you are the best suited candidate for the New Visions: Applied Engineering Program; and why do you wish to participate in the New Visions: Applied Engineering Program?***

The essay should be computer generated, with a focus on overall presentation, creativity, clarity, and proper use of grammar and conventions. The following are ***examples*** of topics that should be discussed in your essay.

- ✓ The field of engineering is typically described as having 4 major branches: Chemical Engineering, Civil Engineering, Electrical Engineering, and Mechanical Engineering. Describe your career goals relative to one or more of these areas or related to Engineering.
- ✓ What colleges are you considering upon graduation?
- ✓ What are your favorite subject(s) in school?
- ✓ List your interests/activities both in school and outside of school.
- ✓ List prior experience (paid or volunteer) you have had.
- ✓ State your qualifications that make you suited for the New Visions: Applied Engineering Program.
- ✓ State your reasons for interest in this career field;
- ✓ Detail any school or community experiences in engineering, construction, computer technology, or related fields.