Curriculum Checklist Form

Complete the information below then read the delivery instructions at the bottom of this form.

SECTION A.

YOUR NAME: _____
                          Last   First   M.I.

EXAM TYPE: **P.E.** ☐   **F.E.** ☐

You must complete this form if you have:

1. A 4-year engineering degree from a college/university in the U.S. that is not EAC/ABET approved;
2. A 4-year engineering technology degree (either approved or unapproved by TAC/ABET) from a college/ university in the U.S.;
3. A degree from a foreign institution or;
4. Any other unapproved degree.

*This Form is <u>NOT</u> Requied If Applying Under Subsection 14-305(D) - EXPERIENCE ONLY OPTION

A. Name of College(s)/University(ies)	Degree	Graduation Date
1.		
2.		
3.		
4.		

An engineering curriculum of 4 academic years or more should consist of at least:

1. 15 semester hours in mathematics which shall include differential calculus, integral calculus, and differential equations;
2. 15 semester-hours of instruction in basis sciences which shall include general chemistry and general physics with calculus;
3. 30 semester-hours of instruction in engineering subjects, which shall include a course, project, or thesis that focuses upon engineering design,
4. 15 semester-hours of instruction in advanced mathematics, basis science, or engineering.

Use the Following Sections to List Your Courses for Each of the Four Categories Above.

SECTION B. 15 semester hours in **MATHEMATICS** which shall include differential calculus, integral calculus, and differential equations

COLLEGE NO. FROM SEC. A	COURSE NAME	COURSE NUMBER	COURSE CONTENT/ DESCRIPTION	CREDIT HOURS SEMESTER	QTR
			TOTAL		

SECTION C. 15 semester hours in **BASIC SCIENCES** which shall include general chemistry and general physics with calculus

COLLEGE NO. FROM SEC. A	COURSE NAME	COURSE NUMBER	COURSE CONTENT/ DESCRIPTION	CREDIT HOURS SEMESTER	QTR
			TOTAL		

SECTION D. **30** semester hours in **ENGINEERING SUBJECTS** which shall:

    (1) Include a course, project, or thesis that focuses upon engineering design (indicate with a *);

    (2) Incorporate hands on quantitative laboratory work correlated with the science and design instruction (indicate with **);

    (3) For graduation subsequent to 1975, include at least one high level computer language such as FORTRAN or PASCAL, C/C++, or MATLAB so that the student is able to compose computer programs to solve problems in science and design (indicate with ***);

    (4) demonstrate familiarity with probability, statistics, and linear algebra (indicate with ****).

Engineering courses shall be selected subject areas such as:

Biochemistry, Biophysics & Biometrics	Civil & Structural Engineering
Computer Science	Digital Signals & Systems
Electrical, Electronic & Computer Engineering	Electrodynamics
engineering Design	Engineering Economics
Finite Element Analysis	Fluid Mechanics, Hydraulics, & Gas Dynamics
Geochemistry & Geophysics	Materials Science
Physical, Organic & Inorganic Chemistry	Sanitary & Environmental Engineering

COLLEGE NO. FROM SEC. A	COURSE NAME	COURSE NUMBER	COURSE CONTENT/ DESCRIPTION	CREDIT HOURS SEMESTER	QTR

SECTION E. 15 semester credit hours in advanced courses in mathematics, science or engineering

COLLEGE NO. FROM SEC. A	COURSE NAME	COURSE NUMBER	COURSE CONTENT/ DESCRIPTION	CREDIT HOURS SEMESTER	QTR
			TOTAL		

INSTRUCTIONS: Send the completed form via one of the following options:

1) Email to dloplproengineerexam-labor@maryland.gov; or

2) Mail to Board for Professional Engineers, 100 South Charles St. Tower 1, Baltimore, MD 21201

INSTRUCTIONS FOR COMPLETING CURRICULUM CHECKLIST FORM

Applicant must complete this form if you are applying with a non-EAC/ABET 4-year engineering degree; a 4-year engineering TAC/ABET technology degree (approved or unapproved); a non-US base degree or other unapproved degrees. ***This Form is NOT Requied If Applying Under Subsection 14-305(D) - Experience Only Option**

Provide official course-by-course evaluation for each unaccredited program attended outside the U.S. Applicant must arrange to send trascripts directly from the evaluation company to the Board's office. Recommend cedential evaluation organization, visit: **www.ncees.org** or **www.wes.org** To be valid colleges/univertistes must send transicpts directly to the evaluation companies.

SECTION A - List the names of the colleges/universities you attended, and the degree(s) earned and date(s) awarded. In Sections **B, C** and **D** in the first column boxes denote the college/university by the number assigned to it in Box A.

SECTION B - Enter the information about mathematics courses taken, totaling at least 15 semester credit hours. Relevant courses should include differential calculus, integral calculus and differential equations, and should be described as such in the course content column.

SECTION C - Enter information about basic sciences courses taken, totaling 15 semester credit hours. Relevant courses should include general chemistry and physics with calculus, and should be described as such in the course content column.

SECTION D

Enter information about engineering courses taken, totaling at least 30 semester credit hours. These courses should:

1. Include a course, project or thesis focusing on engineering design (indicate with *).

2. Incorporate hands-on quantitative laboratory work correlated with the science and design instruction (indicate with **).

3. For graduation subsequent to 1975, include at least one high level computer language such as FORTRAN or PASCAL so that the student is able to compose computer programs to solve problems in science and design (indicate with ***).

4. Demonstrate familiarity with probability, statistics and linear algebra (indicate with ****).

    Engineering courses shall be in selected subject areas such as:

Biochemistry, Biophysics & Biomechanics	Civil & Structural Engineering
Computer Science	Digital Signals & Systems
Electrical, Electronic & Computer Engineering	Electrodynamics
Engineering Design	Engineering Economics
Finite Element Analysis	Fluid Mechanics, Hydraulics, & Gas Dynamics
Geochemistry & Geophysics	Materials Science
Physical, Organic & Inorganic Chemistry	Sanitary & Environmental Engineering
Transient Analysis & Feedback Control	Transfer & Transport Phenomena
Solid State Physics, Nuclear Physics, Quantum Optics	Statics and Dynamics
Strength of Materials	Thermodynamics

SECTION E - Provide the information requested about advanced courses in mathematics, science or engineering, totaling 15 semester hours.