



German American

Banking | Insurance | Investments

21 SE 3rd Street | Evansville, IN 47708 | P: (812)962-2265

Olney Central College
Attn: Student Aid
305 N. West Street
Olney, IL 62450

2025 Scholarships Available

White County Lions/Blackledge Scholarship applications are available to College students who graduated from one of the three White County high schools below.

**Carmi White County High School
Grayville High School
Norris City Omaha Enfield High School**

Applications are available by contacting:

- any White County high school guidance counselor
- German American Wealth, 21 SE Third Street, Evansville, IN 47708
- Spencer Vinson at 812-759-9772 or spencer.vinson@germanamerican.com

Deadline for submission is March 28, 2025. The preferred method of submission is by email: spencer.vinson@germanamerican.com

Application may also be postmarked or hand delivered by 3:30 pm to:

German American Wealth
Attn: Spencer Vinson
21 SE Third St
Evansville, IN 47708

THE UNIVERSITY OF CHICAGO
DEPARTMENT OF CHEMISTRY
5800 S. UNIVERSITY AVENUE
CHICAGO, ILLINOIS 60637

RECEIVED
JAN 15 1964

PROF. J. H. GOLDSTEIN
PHYSICS DEPARTMENT
UNIVERSITY OF CHICAGO
5734 S. UNIVERSITY AVENUE
CHICAGO, ILLINOIS 60637

Dear Professor Goldstein:

I have just received your letter of January 10, 1964, regarding the paper by Goldstein and I, "The Structure of the α -Particle in the α -Decay of ^{210}Po ", published in the *Journal of Chemical Physics*, 38, 1055 (1962).

I am sorry that I cannot give you a more definite answer at this time, but the matter is being discussed by the members of the editorial board of the *Journal of Chemical Physics*. I am sure that you will understand the need for a thorough review of the paper, particularly in view of the fact that it is a review article. I am sure that the members of the editorial board will give you a thorough and fair review of the paper.

Very truly yours,
J. H. Goldstein

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Very truly yours,
J. H. Goldstein

WHITE COUNTY LIONS CLUBS — MARTIN BLACKLEDGE SCHOLARSHIP TRUST
SCHOLARSHIP APPLICATION

Please complete the following and return (with attachments) by March 28, 2025:

Preferred method is email:

spencer.vinson@germanamerican.com

Or mail to: German American Wealth
Attn: Spencer Vinson
21 SE Third St
Evansville, IN 47708

If you have any questions, please email or call Spencer Vinson (812- 759-9772).

Required attachments:

1. Summary of background, work experience, activities in school and community, educational and vocational plans, financial need and other financial aid expected.

Applications will be evaluated on:

- a. Scholastic ability
 - b. Financial need
 - c. Moral character
2. Two letters of recommendation (not by family members)
 3. High school transcript
 4. Household prior year Adjusted Gross Income; tax return or equivalent documentation (Include non-custodial parent if they will provide all or part of your college expense)

Notification to recipients in May, typically at the school awards program or graduation exercises.

Payments made payable to the student and the college/university. Checks mailed directly to the school.

Renewals subject to satisfactory hours and grades, as submitted to German American Wealth.

Full Name: _____

Mailing Address: _____

Home & Cell Phone: _____

Email address: _____

**Do not submit an email linked to your high school – this is for communication after graduation*

High School: _____

College / University: _____

Name of Parent or Guardian: _____

High School Class Rank: _____ High School or College GPA _____ SAT/ACT Score _____

THE UNIVERSITY OF CHICAGO
PHYSICS DEPARTMENT

PHYSICS 433: QUANTUM MECHANICS

PROBLEM SET 10

Due: Friday, November 11, 2011

1. (10 points) Consider a particle in a one-dimensional potential

$V(x) = \begin{cases} 0 & x < 0 \\ \frac{1}{2}kx^2 & x > 0 \end{cases}$

where k is a constant.

(a) (5 points)

Find the energy eigenvalues

for the ground state.

(b) (5 points) Find the probability of finding the particle

in the region $x > 0$.

2. (10 points) Consider a particle in a one-dimensional potential

$V(x) = \begin{cases} 0 & x < 0 \\ \frac{1}{2}kx^2 & 0 < x < a \\ \infty & x > a \end{cases}$

where k and a are constants. The particle is in the ground state.

(a) (5 points) Find the energy eigenvalue.

(b) (5 points) Find the probability of finding the particle

in the region $0 < x < a/2$.

3. (10 points) Consider a particle in a one-dimensional potential

$V(x) = \begin{cases} 0 & x < 0 \\ \frac{1}{2}kx^2 & 0 < x < a \\ \infty & x > a \end{cases}$

where k and a are constants. The particle is in the ground state.

(a) (5 points) Find the energy eigenvalue.

(b) (5 points) Find the probability of finding the particle

in the region $0 < x < a/2$.