



Curriculum Vitae

AGYEMANG COLLINS

Department of Integrated Science Education,

Faculty of Science Education,

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Born on 15th March, 1983

Ghanaian

Areas of Expertise or Professional Skills: Science Education (Physics) and Mathematics

Professional Qualification(s):

| Awarding Institution | Qualification | Period |
|----------------------------------|------------------------|---------------|
| University of Education, Winneba | PGDTLHE | 2021 |
| University of Education, Winneba | MPhil Science | 2008- 2010 |
| University of Education, Winneba | BEd. Science Education | 2003-2007 |

Professional Responsibilities:

| <i>Position</i> | <i>Office/Location</i> | <i>Period</i> |
|--------------------|----------------------------------|-----------------|
| Assistant Lecturer | University of Education, Winneba | 2020 to present |

Education:

| <i>Qualification/Certificate obtained</i> | <i>Name of Institution Attended</i> | <i>Date</i> |
|---|-------------------------------------|-----------------|
| Ph.D. (Science Education) | University of Education, Winneba | 2020 to present |
| PGDTLHE | University of Education, Winneba | 2021 |
| MPhil Science | University of Education, Winneba | 2008- 2010 |
| BEd. Science Education | University of Education, Winneba | 2003-2007 |
| Senior Secondary School | Prempeh College | 1999-2001 |

Career History:

| <i>Position/Title</i> | <i>Name of Institution</i> | <i>Date</i> |
|-----------------------|----------------------------------|-------------|
| ➤ Assistant Lecturer | University of Education, Winneba | 2020- Date |

Responsibilities:

- Lecturing undergraduate courses in Integrated Science Education Department
- Supervising students research works at the Undergraduate level
- Providing academic counseling for students (Level 300)

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|-------------------|---------------|-------------|
| ➤ Science Teacher | LA Presby SHS | 2018 – 2020 |
|-------------------|---------------|-------------|

Responsibilities:

- Physics and Integrated science tutor
- Conduction and supervision of science practicals

➤ Teaching and Assistant Dept of Science Education, UEW 2007-2008

Responsibilities:

- Conduction and supervision of physics practicals
- Organizing tutorials for students

**Publications, Research/Projects Conducted or Undertaken, Creative Works/Productions
Produced:**

Nti D., Appiah-Twumasi E., Ameyaw F. and **Agyemang C.** (2023). Analyzing gender differences in misconception in linear momentum using two-tier diagnostic test instrument. *Journal of Education and Practice*, 14 (1).

Appiah-Twumasi, E., **Agyemang**, C., Ameyaw, Y . and Anderson, I.K. (2022). Development and validation of questionnaire for physics learning self-efficacy among ghanaian senior high schools. *East African Journal of Education and Social Sciences*, 3 (1): 8 – 18.
<https://doi.org/10.46606/eajess2022v03i01.0141>

Twumasi, S.A., Owusu-Fordjour, C. , Koomson, C.K. , **Agyemang**, C. , Addae, R. and Anim, D.O. (2021). Curriculum knowledge of science teachers and its effects on academic performance of pupils. *International Journal of Academic Research and Reflection*, 9 (3): 64 – 77.

Books Published

Addo-Wuver, F., **Agyemang**, C., & Appiah, D. (2022). *Introduction to Mechanics*. Winneba: CoDEL-UEW.

Addo-Wuver, F., **Agyemang**, C., & Appiah, D. (2022). *Energy and Force Fields*. Winneba: CoDEL-UEW.

Addo-Wuver, F., **Agyemang**, C., & Appiah, D. (2022). *Properties of Matter*. Winneba: CoDEL- UEW

Seminars and Workshops:

| <i>Course Title</i> | <i>Location</i> | <i>Period</i> |
|--|---|---|
| Reflective Practice-Based Learning | North Assembly Hall | 25 th May, 2022 |
| The Danish Education System | North Assembly Hall | 25 th May, 2022 |
| The Effect of Exemplary Materials on students' performance and knowledge retention in hybridization and spatial arrangements of atoms and molecules by Mr. Emmanuel Amihene Cobbinah & Prof. Ruby Hanson | Faculty of Science Education | 2 nd March, 2022 |
| Professional Development and Best Research Practices | Elmina Beach Resort | 26 th August, 2021 -29 th August, 2021 |
| Making UEW an institution of Excellence through Funded Research and Innovations; The way forward building a research funding and Grantmanship Conference | Jophus Anamuah-Mensah Conference Centre | 19 th July, 2021 |
| Gluconic acid, a secondary metabolite from cultures of fungi growth on smoked cassava fish (<i>Pseudotilotus Senegalensis</i>) by Boi-Doku | Faculty of Science Education | 16 th June, 2021 |
| Grants and Proposal Writing Seminar (Developing a Convincing Research Proposal) | North Campus Assembly Hall | 1 st June, 2021 |

Conference(s)

| <i>Name of Conference</i> | <i>Location</i> | <i>Period</i> |
|--|---|---|
| Inter-University Conference for Doctoral Studies | Jophus Anamuah-Mensah Conference Centre | 17 th January, 2023 -19 th January, 2023 |
| 6 TH International Multidisciplinary Conference for Postgraduate Students | Jophus Anamuah-Mensah Conference Centre | 7 th September, 2022 -9 th September, 2022 |
| Multidisciplinary Conference for Postgraduate Students | Jophus Anamuah-Mensah Conference Centre | 15 th July, 2021 -16 th July, 2021 |

Curriculum Development:

INS 361: Introduction to Optics

This course is designed to introduce students to some concepts in geometrical and physical optics. Students will also have the opportunity to observe, explain and demonstrate formation of images in different types of optical devices. Students again will be poised to undertake research in integrated science to the optical level with high degree of success. The course will cover aspects of reflection of light at plane and curved surfaces, refraction of light at plane and curved surfaces and colours (primary and secondary colours). Emphasis will also however be placed on electromagnetic spectrum.

This course will be mainly delivered through lectures and supported with laboratory exercises.

INS 242: Introduction to Mechanics

This course is designed to introduce students to the study of motion of bodies and also treats the different types of motion experience under different types of forces. The laws of motion also explored.

Therefore, introduction to mechanics seeks to furnish students with a strong fundamental basics in integrated science. The course will cover aspects of kinematics in one dimension, kinematics in two dimension and circular motion.. Emphasis will however be placed on forces and fluids., This course will be mainly delivered through lectures and supported with laboratory exercises.

Courses taught at the undergraduate level

- Introduction to Optics
- Introduction to Mechanics
- Introduction to Basic Electronics
- Introduction to Waves
- Heat and Thermodynamics
- Electricity and Magnetism

Course or instructional material
University Physics practical manual

Period
Jan. 2021

Student Development: (Academic counselling)

Number of students

113

Time spent per week

5 hours

Membership of Professional Association(s):

| <i>Name of Association</i> | <i>Position held (if applicable)</i> | <i>Period</i> |
|--|--------------------------------------|---------------|
| University Teachers Association of Ghana (UTAG) | Member | 2020 – Date |
| Ghana Science Association | Member | 2022 - Date |

Institutional Service:

| <i>Name of Committee(s) and/or Board(s)</i> | <i>Position or role</i> | <i>Period</i> |
|--|-------------------------|----------------|
| Adoption and Review of BSc. Agriculture Education Regular Full Time Programme Committee | Member | February, 2020 |

Community Service:

| <i>Name of Institution/Organisation</i> | <i>Position(s) held (if applicable)</i> | <i>Period</i> |
|---|---|---------------|
| Chemistry Festival, UEW | Member | 2021 |

Referees:

- | | |
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| <ul style="list-style-type: none"> • Prof. Victor Antwi Dean, School of Graduate Studies, University of Education, Winneba. Tel: (+233) 559393224 | <ul style="list-style-type: none"> • Dr. Charles Koomson Head, Int. Sci. Education, Faculty of Science Education, University of Education, Winneba. Tel.: (+233) 244729714 |
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