

Post-Baccalaureate 2-Year Bachelor's Degree Program in Semiconductor, CCU

1. Program Title: Semiconductor and Smart Manufacturing of High-Tech Industry Program (Post-Baccalaureate two-year bachelor's degree, taught in Chinese)

2. Program Features:

- (1) In response to the demand in Taiwan's semiconductor industry and cultivating talents with basic STEM literacy, integrating related technologies to cultivate talents, targeting students who have obtained a bachelor's degree.
- (2) The course content integrates industry trends and the needs of collaborating companies, designing professional basic and practical courses to cultivate students' skills in semiconductor and smart manufacturing.
- (3) The collaborating companies offer internship opportunities in semiconductor-related fields. These companies include Yieh United Steel Corporation (YUSCO), Advanced Semiconductor Engineering, Inc., Nanotech Semiconductor Corp., Shuoh Yann Co., Ltd., East Bright Star Technology Co., Ltd., and Kung Chi Technology Co., Ltd.
- (4) Admission opens for graduates from all fields of study.

3. Institution:

Chinese Culture University (CCU) / Department of Chemistry / Post-Baccalaureate Two-year bachelor's degree program (Fall semester 2024)

4. Curriculum Guideline:

- (1) This specialized program is taught in Chinese. Curriculum includes university curriculum and internship. The first academic year will be on-campus courses to learn core professional knowledge. The second academic year will involve internship in companies to learn practical skills.
- (2) 48 credits in total, including 30 credits required courses (first year) and 18-credits off-campus internship (second year).

	First Year		Second Year	
	First Semester	Second Semester	First Semester	Second Semester
Required Courses (credits / hours per week)	General Chemistry-1 (2/2) General Physics-1 (2/2) Calculus-1 (2/2)	General Chemistry-2 (2/2) General Physics-1 (2/2) Calculus-2 (2/2)	Internship (1) (9 / 720) 40 hours/week	Internship (2) (9 / 720) 40 hours/week
	Semiconductor Process and Technology (3/3) Semiconductor Engineering (3/3) Electronics (3/3) Introduction to Optics (3/3) Introduction to Smart Production in the Fashion Industry (3/3) Computer Network (3/3)			
Credits	15	15	9	9
Total Credits	48			

5. Entry Requirement:

- (1) Test of Chinese Language Proficiency (TOCFL) must reach level A2 or above (Both listening and reading must be level A2 or above). Level B1 will be required in the second academic year.
- (2) University Grade Point Average (GPA) is above 70 out of 100 (last semester could be excluded).

6. Requirement for Graduation:

The duration of study is 2 years, including 1 year of on-campus courses and 1 year of off-campus internship. Students must fulfill a total of 48 credits to graduate, including 30-credit required courses, 18- credit off-campus internship.

7. Post-Graduation Employment Obligations:

The obligation period for students hired corresponds to the duration of receiving the corporate living allowance. For instance, those receiving a 2-year living allowance from the industry are obligated to work for 2 years. If student successfully passes assessments conducted by both the school and the industry, completes their academic requirements, and obtains a degree, the collaborating industries have the right to hire and provide suitable positions and salary not less than the minimum wage. The employment should align with the vacancies provided by the industry and the competency requirements for the positions as outlined below:

No.	Collaborating Company	Job/Positions		Skill Requirement
1	Yieh United Steel Corporation (YUSCO)	Senior technicians	20	1. Mechanical Maintenance, Installation, and Overhauling 2. Electric Welding and Oxyacetylene Cutting 3. Implementing Equipment Improvements and Routine Maintenance
2	Advanced Semiconductor Engineering, Inc.	Equipment Engineers	10	Responsible for abnormal inspection, troubleshooting, daily maintenance, machine modification operations and machine utilization improvement projects on semiconductor packaging and testing machines on the production line to maintain normal operation of the production line.
3	Nanotech Semiconductor Corp.,	Testing and Production Field Engineers	3	1. Automated IC test setting training 2. Test instrument operation

				<p>training</p> <p>3. Instrument programming language writing and control training</p> <p>4. Automated test circuit design training</p> <p>5. Automated test architecture design training</p> <p>6. Troubleshooting practical technical problems</p> <p>7. Machine preventive maintenance training</p> <p>8. Machine maintenance and abnormality resolution training</p> <p>9. Machine capability improvement training</p> <p>10. Training on changing machine settings according to production line needs</p> <p>11. Work training related to machine relocation and restoration</p>
4	Shuoh Yann Co., Ltd.	Technical Engineers	2	Abnormal inspection and repair, troubleshooting, daily maintenance, assembly testing, and process application of vacuum equipment product testing machines.
5	East Bright Star Technology Co., Ltd.	CNC Processors	2	Responsible for the operation of CNC processing machines and other on-site processing machines, independent inspection and measurement, and learning basic professional knowledge such as machine operation guidelines and the use of basic measuring tools.
6	Kung Chi Technology Co., Ltd.	Technical Engineers	2	Vacuum coating and vacuum heat treatment equipment
Total	6 Companies	39 job openings		

8. Tuition Fee and Scholarships:

(1) Tuition and Miscellaneous Fee: Please refer to the Tuition and Miscellaneous Fees of the University for details. (<https://tuition.pccu.edu.tw/p/412-1315-15252.php?Lang=zh-tw>)

(2) Include the first and second year of National Development Fund Scholarships qualifications.

Unit	Content	Limit	Note
National Development Fund	Administrative fees for arrival in Taiwan	The maximum amount is NTD\$ 10,000.	One-time subsidy covering pre-arrival health check expenses, visa fees, and document verification fees.
	One-way flight ticket	The maximum amount is NTD\$ 9,000	One-time subsidy, the airfare is verified based on the economy class one-way ticket for the most direct route to Taiwan.
	Industry-Academia Collaboration Scholarship	<p>First Year: Tuition and miscellaneous fees are provided to students in their first year of enrollment.</p> <p>Second Year: For student who reach TOCFL A2 or above and after reviewing the scores and performance by the school and collaborating industry, tuition and miscellaneous fee subsidies will be awarded based on merit.</p>	<p>1. Subsidies will be granted based on the actual tuition and miscellaneous fees payable by students to the school, with an annual maximum subsidy of NTD\$ 100,000 (One semester maximum of NTD\$ 50,000).</p> <p>2. A maximum of two years of tuition and miscellaneous fee subsidies will be provided.</p> <p>3. Obligations for staying in Taiwan for employment will apply based on the number of years the scholarship is received. Specifically, recipients of the scholarship for one year will have a one-year obligation to stay in Taiwan for employment, and those receiving the scholarship for two years will have a two-year obligation to stay in Taiwan for employment</p>

University	Hua Gang Scholarship	<p>Quota and amount: Top three in each class. (No back-up allowed)</p> <p>First place: NTD\$ 8,000 Second place: NT\$ 5,000 Third place: NT\$ 2,000</p>	<p>1. Students in university departments and two-year in-service classes who are among the top three students in the class in terms of average academic performance in the previous semester, have a conduct score of 80 or above, and have not received any demerits or above.</p> <p>2. Please refer to the Hua Gang Scholarship of the University for details.</p> <p>https://crbbbf.pccu.edu.tw/p/406-1203-46390,r1092.php?Lang=zh-tw</p>
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(3) Industry-Academia Collaboration Scholarship Requirement

Student who withdraws from the specialized program or fails to fulfill employment contract after graduation, the repayment principles for the scholarships as follows:

1. If the circumstances are not under student control, there is no requirement for repayment:

- (1) Due to the operational adjustment, the original collaborating industry ceases to provide living allowance to student during their learning and student is unable to achieve additional support from other industry, leading the student's withdrawal from the specialize program.
- (2) Due to the operational adjustment, the original collaborating company has no job vacancies available for employment upon the student's graduation, and despite the school's efforts in providing career guidance and facilitating job placement, the student is unable to secure suitable employment opportunities.
- (3) If the collaborating company, during the student's employment period, encounters situations as specified in Article 14, Paragraph 1 of the Labor Standards Act, leading the student to terminate the contract, and despite the school's efforts in providing career guidance and facilitating job placement, the student is still unable to find a suitable company for subsequent employment.
- (4) Student's death, severe illness, or an unforeseen accident preventing them from continuing their studies or employment, a certified document issued by a teaching hospital rated at or above the level of accreditation by the Ministry of Health and Welfare, stating the student's inability to continue education or employment, or in cases where significant family upheaval due to an accident prevents the student from pursuing education or employment, as verified by the school.

2. If the circumstances are under student control, requirement for repayment:

- (1) Withdrawal from the specialized program during the academic period due to personal reasons such as applying for transfer, changing majors, absence, or returning to one's home country. Even after guidance provided by the school, if the student chooses to leave the specialized program or if the school, in accordance with its regulations, initiates withdrawal or expulsion.
- (2) Poor academic performance, failure to meet the evaluation standards set by both the school and the collaborating industry. Even after school guidance, student fails improve, and in accordance with the school regulations, the student faces withdrawal or expulsion. In such cases, the student is required to repay the previously received industry-academia scholarships.
- (3) After graduation, student chooses not to pursue employment with the collaborating industry or in the relevant industrial field, or if, after employment, the student violates company regulations leading to lawful termination of the labor contract, and after school guidance, no improvement is observed, the student is obligated to repay the received industry-academia funding.
- (4) If a student, during the employment period with the collaborating industry, does not complete the specified duration for receiving industry-academia scholarship, repayment should be made based on the proportion of the remaining months unemployed; for periods less than one month, one month's repayment is required.

9. Description of Living Allowance:

(1) Living Allowance:

Unit	Content	Limit	Note
Collaborating companies of the program	Living Allowance	During the student's academic period and before participating in the internship, the monthly stipend is set at NTD\$ 10,000 per person.	After graduation, students are obligated to seek employment in Taiwan. Industries who provide subsidies have the right to prioritize the employment of these students, aiming to expedite the recruitment of the necessary mid-to-high-level talents.
	Internship Allowance	During the off-campus internship period, each person will receive a monthly internship allowance not less than the minimum wage, with overtime pay calculated separately.	

(2) Living Allowance Requirement:

Student who withdraws from the specialized program or fails to fulfill employment contract after graduation, the repayment principles for the living allowance as follows:

1. If the circumstances are not under student control, there is no requirement for repayment:
 - (1) Due to the operational adjustment, the original collaborating industry ceases to provide living allowance to student during their learning and student is unable to achieve

additional support from other industry, leading the student's withdrawal from the specialize program.

- (2) Due to the operational adjustment, the original collaborating company has no job vacancies available for employment upon the student's graduation.
- (3) If the collaborating company, during the student's employment period, encounters situations as specified in Article 14, Paragraph 1 of the Labor Standards Act, leading the student to terminate the contract, no repayment is needed.
- (4) Student's death, severe illness, or an unforeseen accident preventing them from continuing their studies or employment, a certified document issued by a teaching hospital rated at or above the level of accreditation by the Ministry of Health and Welfare, stating the student's inability to continue education or employment, or in cases where significant family upheaval due to an accident prevents the student from pursuing education or employment, as verified by the school.

2. If the circumstances are under student control, requirement for repayment:

- (1) Withdrawal from the specialized program during the academic period due to personal reasons such as applying for transfer, changing majors, absence, or returning to one's home country. Even after guidance provided by the school, if the student chooses to leave the specialized program or if the school, in accordance with its regulations, initiates withdrawal or expulsion.
- (2) Poor academic performance, failure to meet the evaluation standards set by both the school and the collaborating industry. Even after school guidance, student fails improve, and in accordance with the school regulations, the student faces withdrawal or expulsion.
- (3) Student is not employed to the collaboration industry 3 months after graduation.
- (4) If a student, during the employment period with the collaborating industry, does not complete the specified duration for receiving industry-academia living allowance, repayment should be made based on the proportion of the remaining months unemployed; for periods less than one month, one month's repayment is required.

中國文化大學學士後二年制半導體暨高科技產業智慧製造專班

1. 專班名稱：半導體暨高科技產業智慧製造專班（學士後 2 年制學士專班，中文授課）

2. 專班特色：

- (1) 因應臺灣半導體產業需求與培養具備 STEM 基本素養人才，整合相關技術培育人才，旨在訓練已獲得學士學歷的學生。
- (2) 課程內容結合產業趨勢與合作公司需求，規劃專業實務課程，培育學生半導體與智慧製造技能。
- (3) 合作企業提供半導體相關領域的實習機會，包括燁聯鋼鐵股份有限公司、日月光半導體製造股份有限公司、南岩半導體股份有限公司、碩彥企業股份有限公司、耀星科技股份有限公司、廣繼科技有限公司。
- (4) 招收不限專業領域背景之大學畢業生。

3. 開班學校/系所/學制：

中國文化大學/化學系/學士後二年制學士專班/2024 年秋季班

4. 課程規劃：

- (1) 本專班以中文為授課語言，課程規劃有專業課程與實習課程。第一學年為校內課程，學習專業核心知識；第二學年進入企業實習，學習實務技能。
- (2) 本專班課程共 48 學分，含專業必修課程 30 學分(第一年)、校外實習 18 學分(第二年)。

	第一年		第二年	
	第一學期	第二學期	第一學期	第二學期
必修課程 (學分/每週授課 時數)	普通化學一(2/2) 普通物理一(2/2) 微積分一(2/2)	普通化學二(2/2) 普通物理二(2/2) 微積分二(2/2)	校外實習(1) 9/720	校外實習(2) 9/720
	半導體製程與技術(3/3) 半導體工程(3/3) 電子學(3/3) 光學概論(3/3) 時尚產業智慧化生產導論(3/3) 電腦網路(3/3)			
學分	15	15	9	9
總學分	48			

5. 入學資格：

- (1) 語言能力要求：學生入學前華語文能力測驗(TOCFL)基礎級(Level 2，相當於 CEFR A2)聽、讀 2 項皆須達 A2 級(含)以上。入學第 2 年需達 B1 級。
- (2) 大學學業成績 70 分以上。(最後一個學期可不計入)

6. 畢業門檻：

(1) 修業年限 2 年(含校內課程 1 年和校外實習 1 年)，畢業學分為 48 學分，含必修 30 學分校外實習 18 學分)。

7. 畢業後履行就業義務：

領取國發基金產學獎助金的學生，依據領取年限具有相應留臺就業年限的義務。學生如通過學校及企業評核，完成學業取得學位，合作企業具聘用權，應提供適合職缺及不低於基本薪資之待遇，留用並聘僱學生。配合企業所提供的職缺及該職缺所需的職能要求如下：

編號	專班合作企業名稱	職務需求/人數	專業能力
1	燁聯鋼鐵股份有限公司	高級技術員 20	1.機械維修、安裝、整備 2.電銲及氧乙炔切割 3.執行設備改善、例行性保養維修
2	日月光半導體製造股份有限公司	設備工程師 10	負責生產線上半導體封裝測試機台的異常查修、故障排除、日常保養、改機作業及機台稼動率提升專案，以維持生產線正常運作。
3	南岩半導體股份有限公司	測試生產儲備工程師 3	1.自動化 IC 測試設定訓練 2.測試儀器操作訓練 3.儀器程式語言撰寫及控制訓練 4.自動化測試電路設計訓練 5.自動化測試架構設計訓練 6.實務技術問題排除 7.機台預防保養訓練 8.機台維修與異常解決訓練 9.機台能力提升訓練 10.依產線需求變更機台設定訓練 11.移機復機相關工作訓練
4	碩彥企業股份有限公司	技術工程師 2	真空設備產品測試機台的異常查修、故障排除、日常保養、組裝測試、製程應用。
5	耀星企業股份有限公司	CNC 操作員 2	負責 CNC 加工機及其他現場加工機操作、自主檢驗量測，學習架機操作準則、基本量具使用等基礎專業知識。
6	廣繼科技有限公司	技術工程師 2	真空鍍膜與真空熱處理設備
合計	6 家公司	39 個職缺	

8. 獎助金說明：

(1) 學雜費收費基準：請參考本校學雜費收費標準

<https://tuition.pccu.edu.tw/p/412-1315-15252.php?Lang=zh-tw>

(2) 錄取之學生，經審核通過將由國發基金提供產學獎助金。獎助金包括：

獎/補助單位	獎/補助項目	獎/補助額度上限	說明
國發基金	初次來臺之相關必要行政費用	新南向區域國家及其他國家來臺，上限新臺幣 10000 元。	採一次性補助，含來臺前健康檢查費用、簽證費用及文書驗證費用。
	單程機票	新南向區域國家上限為新臺幣 9000 元。	採一次性補助，以來臺最直接航程之經濟艙單程機票費用核實請領。
	產學獎助金	<p>第一年： 入學第一年給予學雜費補助。</p> <p>第二年： 華語文能力測驗 (TOCFL) 需達 A2 級 (含) 以上，且需通過學校與合作企業審查成績與表現後，擇優核給學雜費補助。</p>	<p>1. 依學生實際應繳交給學校學雜費給予補助，每年補助上限 10 萬元(一學期上限 5 萬元)。</p> <p>2. 最多補助 2 年學雜費。</p> <p>3. 依據領取年限具有相應留臺就業年限的義務。即領取 1 年產學獎助金者，具有 1 年留臺就業義務；領取 2 年產學獎助金者，具有 2 年留臺就業義務。</p>

本校	華岡獎學金	名額及金額： 每班前三名(不得遞補) 第一名 8,000 元 第二名 5,000 元 第三名 2,000 元	申請資格： 1. 大學部與二年制在職專班之學生，同時具備下列條件者，得申請華岡獎學金：前學期學業平均成績為該班前三名(不得遞補)，且修讀本學系課程之學分須達該學期總修課學分之百分之五十者。且操行成績在 80 分以上及未受記過以上處分同學。 2. 已辦理休學、退學、轉學、提前畢業(或申請後再辦理休學、退學、轉學)及延畢者，不予核給。 3. 詳細資訊請參考本校華岡獎學金網頁： https://crbbbf.pccu.edu.tw/p/406-1203-46390,r1092.php?Lang=zh-tw
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(3) 學生如中途退出專班或畢業後未履約就業者，所受領之產學獎助金必須依 規定之原則繳還。原則如下：

1. 屬不可歸責於學生之原因，無須繳還產學獎助金：

- (1) 原合作企業因營運調整，於學生在學期間停止提供生活津貼，又學生經學校媒合仍無法覓得其他企業願意續予補助生活津貼，致學生中途退出專班者。
- (2) 原合作企業因營運調整，於學生畢業時無職缺可聘用，又學生經學校進行就業輔導及媒合其他企業仍無法覓得適合企業聘僱者。
- (3) 合作企業於學生就業期間有勞動基準法第十四條第一項規定情形，致學生提出終止契約，又學生經學校進行就業輔導及媒合，仍無法覓得適合企業接續聘僱者。
- (4) 學生死亡、因重大疾病或意外事故不能繼續就學或就業，經衛生福利部新制醫院評鑑合格之教學醫院以上層級，開立認定無法繼續就學或就業證明者，或因事故致家庭巨變無法繼續就學或就業，經學校查證屬實者。

2. 屬可歸責於學生之原因，應繳還產學獎助金：

- (1) 就學期間因個人因素中途退出專班：如申請轉學、轉系、休學返國，經學校輔導後仍放棄繼續就讀專班、或經學校依學則退學、開除學籍等情形。
- (2) 學生學習表現不佳，未通過學校及企業評核標準，並經學校輔導後仍無改善且依學則處以退學、開除學籍等情形，學生應返還已領之產學獎助金。
- (3) 學生畢業後選擇不至合作企業或相關產業領域就業，或就業後違反公司規定被依法終止勞動契約，並經學校輔導後仍無改善者，學生應返還已領之產學獎助金。
- (4) 學生於合作企業就業期間未滿受領產學獎助金年限：應依其未就業之月數比例繳還產學獎助金；不滿一月者，以一月計。

9. 生活津貼說明：

(1) 生活津貼：

獎/補助單位	獎/補助項目	獎/補助額度上限	說明
專班合作企業	生活津貼	學生就學期間，企業每月提供新台幣 10,000 元生活津貼。	畢業後即具有留臺就業義務，提供獎助津貼之企業具有優先留用聘僱學生的權利，以加速補足所需中高階人才。
	實習津貼	校外實習期間每人每月提供不低於最低薪資的實習津貼，加班費另計。	

(2) 生活津貼繳還原則：

學生如因中途退出專班或畢業後未履約就業，所受領企業生活津貼之繳還原則如下：

1. 屬不可歸責於學生之原因，無須繳還生活津貼：

- (1) 企業若因營運調整，於學生在學期間停止提供學生生活津貼，屬不可歸責於學生之原因，企業不得向學生追回已請領之生活津貼。
- (2) 合作企業因營運調整，於學生畢業時無職缺可聘用。
- (3) 合作企業於學生就業期間有勞動基準法第十四條第一項規定情形，致學生提出終止契約時，學生免償還已受領之生活津貼。
- (4) 學生死亡、因重大疾病或意外事故不能繼續就學或就業，經衛生福利部新制醫院評鑑合格之教學醫院以上層級，開立認定無法繼續就學或就業證明者，或因事故致家庭巨變無法繼續就學或就業，經學校查證屬實並通報企業者，得免履行就業義務及免償還受領之生活津貼。

2. 屬可歸責於學生之原因，得於合約內容載明追回條件情況下，由企業向學生追回生活津貼：

- (1) 就學期間因個人因素中途退出專班：如申請轉學、轉系、休學返國，經學校輔導後仍放棄繼續就讀專班、或經學校依學則退學、開除學籍等情形。
- (2) 學生學習表現不佳，未通過學校及企業評核標準，經學校輔導後仍無改善，致企業不予聘用者。
- (3) 學生畢業後 3 個月內，未至合作企業就業。
- (4) 學生於合作企業就業期間未滿受領生活津貼年限：應依其未就業之月數比例償還生活津貼；不滿一月者，以一月計。