

Agenda

- A. Opening Remarks (T. Pigg / R. Davis)*
- B. Program Updates*
- C. Program Schedule Review*
- D. ATMAE Accreditation*
- E. Program Funding Efforts*
- F. Program Recruiting*
- G. 2023 Recruiting*
- H. Staff Development*
- I. Curriculum Review*
- J. Review of Program Goals*
- K. Summary Conclusion*

Light refreshments will be available during the meeting. Advisory board members / guests are encouraged to take impromptu tours of the classrooms and labs with faculty and staff.

*JSCC Engineering Systems Technology
Advisory Board Minutes
May 30, 2023*

The Spring 2023 JSCC Engineering Systems Technology Advisory Board (ENST) meeting was held on May 30, 2023 in room MC 133 on the JSCC campus, starting shortly after 11 am. Dr. Tom Pigg, Dr. Jennifer Lopes (Dean of Academic Affairs), and Advisory Board President Reggie Davis provided opening remarks. Mr. Davis commented on the importance of maintaining benchmarks for overall program performance, and the importance of being future-focused.

Program Updates: R. James provided an overview of program enrollment and graduation rates for the last two years (information provided via the JSCC Institutional Effectiveness Office). In addition, ENST Exit exam results were displayed for Spring 2023. Jason Bates of Toyota asked a question concerning the program's current and projected number of graduates. C. Roberts provided the overall response to the question at hand, forecasting 30+ graduates for Spring 2024 (primarily due to the evening cohort completing coursework by December 2023).

Program Schedule Review: C. Roberts provided overview on the Advanced Maintenance Technician (AMT) 8's (Spring 2023 graduates), AMT 9's (scheduled to graduate in Spring 2024), and insights into the evening cohort group (scheduled to finish their coursework in December 2023). Next C. Roberts introduced Cyndi Werner to the Advisory board, outlining her role as being a principal advisor from Student Services to the ENST program, as well as being of central advisory help to JSCC Business and Computer Information Technology majors. A. Hamilton followed up with a review of how the new seven-week class format would be applied to the incoming AMT 10 cohort, fielding a variety of questions coming from the board on how the seven-week class format is to be implemented (with pros and cons). The ATMAE accreditation letter for the program was displayed for attending board members.

Program Funding Efforts: B. Lawrence provided overview for the grant-funded acquisition of the Mechatronics trainer housed in MC 131. The trainer cost approximately \$200K, and consists of eight separate PLC controlled stations that are used to gauge, index, place, sort, queue, test, and torque a small valve pneumatic valve assembly. The trainer contains a programmable robot, and has the capacity to be assembled together as a production unit with E-stops ganged together. B. Lawrence updated the board on TCAT / JSCC ENST articulation efforts that emphasized [1] TCAT students pursuing an A.A.S. thru JSCC Engineering Systems Technology must complete the 18+ month TCAT certificate, [2] graduate TCAT students would pursue a parallel but not identical path towards a different degree program to be setup with Engineering Systems, and [3] that only a limited amount of TCAT credits (approximately 12 hours) could foreseeably be extended toward these TCAT completers. Comments / feedback from the board strongly implied that such an agreement would need Advisory board review and understanding before such a plan could be implemented. Implementation of such an effort is at least a year (or more) away, nevertheless, a set aside discussion on the matter to better outline the workings of such an arrangement should be a central part of the next scheduled board meeting (placing this issue into the new business discussion of the Spring 2024 Advisory Board meeting).

John McCommon of Workforce Solutions discussed some of the current events within Workforce Solutions, including the fiber-optic boot camp and the Robotics training sessions scheduled for Summer 2023. Next, C. Roberts provided a brief overview of Perkins funding used within the department to fund her current position and provide certain program specific equipment purchases. Within this discussion, board president Reggie Davis initially discussed and provided a motion to the department to [1] obtain

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Advisory Board Minutes

May 30, 2023

white-colored lockout tags for AMT students to use within the department labs, [2] obtain eye wash stations, [3] obtain / upgrade first aid stations within the labs, [4] obtain / upgrade spill cleanup stations, and [5] obtain safety board for the lab areas. The motion as discussed was unanimously approved by the board.

Community (Program) Recruiting / 2023 Recruiting: C. Roberts updated the board on a variety of community and program events involving the department and our AMT 8's and AMT 9's. Events like the JSCC Go Green Tour, Construction, and Robotics judging were highlighted.

Staff Development: ENST faculty members earned certain SACA (Smart Automation Certification Alliance) Gold certifications in areas such as mechanical power transmissions, Robotics, PLC's, and pneumatics, and motor drives in Summer 2022 (RTP, Tanner AL). In addition, A. Hamilton is currently working on his Master's degree (University of Memphis), while B. Lawrence is pursuing a second Master's degree. In April 2023, Both C. Roberts and C. Werner attended NAPE advisor training in Washington D.C. Also, in May 2023, C. Roberts and C. Werner attended the Manufacturing Institute FAME conference in Huntsville, AL.

Curriculum Review: Courses targeted for advisory board curriculum review included [1] EETC 1311 (DC / AC Circuits, [2] ENST 1310 Computers In Engineering, and [3] ENST 2350 Lean Manufacturing. B. Lawrence gave an overview for proposed upcoming changes to the EETC 1311 course; likewise, R. James gave an overview for the ENST 1310 course, and A. Hamilton for the new ENST 2350 Lean Manufacturing course. ENST 2350 will be replacing EETC 1321 Electronics I course. Due to time considerations issues, faculty members will send out a feedback form to all advisory board members for soliciting feedback / comments to the three courses up for curriculum review.

Review of Program Goals: As with the curriculum review materials, the current listing of short-and long-range program goals will be sent out to all advisory board members for soliciting feedback / comments.

Summary / Conclusion: Meeting concluded at 12:41 pm. The next advisory board meeting shall tentatively set for the March / April timeframe in 2024.

JSCC Engineering Systems Technology Advisory Board Meeting

MAY 2023

JSCC Engineering Systems Technology Advisory Board Meeting – Spring 2023

Agenda Opening Remarks

- Program Updates
- Program Schedule Review
- ATMAE Accreditation
- Program Funding Efforts
- Program Recruiting
- 2023 Recruiting Changes
- Staff Development
- Curriculum Review
- Review Of Program Goals
- Summary Conclusion

JSCC Engineering Systems Technology Advisory Board Meeting – Spring 2023

Opening Remarks


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JSCC Engineering Systems Technology Advisory Board Meeting – Spring 2023

Program Updates

- ✓ Enrollment
- ✓ Graduation
- ✓ Exit Exam Results
- ✓ Placement

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Degree & Programs

Enrollment Updates S2023

[Landing](#)
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[Enrollment & Credit Hours](#)
[Demographics](#)
[Location Data](#)
[Freshman Cohort](#)
[Dual Enrollment](#)
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[Fall 2017](#)
[Fall 2018](#)
[Fall 2019](#)
[Fall 2020](#)
[Fall 2021](#)
[Spring 2018](#)
[Spring 2019](#)
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[Spring 2021](#)
[Spring 2022](#)

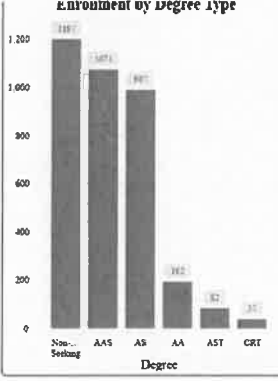
[Go back](#)
[Degree and Program Info...](#)

All **All**
Race TN Promise
Age TN Reconnect
Age Group Term GPA: 0.00 - 4.00
Status
Pell Status
Student Type

Clear all filters

To select multiple options, press CTRL while clicking your desired filter selections

Enrollment by Degree Type




Degree	Enrollment
Non-Degree	1187
AAS	1071
AS	987
AA	362
AST	82
CRT	35

Enrollment by Program

Major	Headcount	%
AAS General Studies	47	22.46%
AS University Transfer Path	5	19.21%
HS Interest: Nursing	281	11.86%
AAS Nursing**	135	5.70%
AAS Health Sciences	108	4.58%
AA University Transfer Path	97	4.09%
AA General Studies	95	4.01%
AST Education	82	3.46%
AAS Business Administration	76	3.21%
HS Interest: RAD	53	2.34%
HS Interest: PTA	51	2.15%
AAS Multi-Skilled Maintenance Technician	47	1.98%
AAS Radiologic Technology**	40	1.69%
AAS Physical Therapist Assistant**	37	1.56%
AAS Business Management	35	1.48%
Total	2369	100.00%

(*) - One star denotes an inactive or shuttered program.
 (**) - Two stars denote a program with its own selective admissions process.
 Note: Academic Focus* and Non-Degree Seeking have been excluded from the Enrollment by Program table.

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Degree & Programs

Enrollment Updates S2023

[Landing](#)
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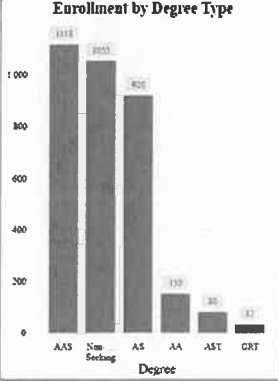
[Go back](#)
[Degree and Program Info...](#)

Gender ACT Comp...
All **All**
Race TN Promise
Age TN Reconnect
Age Group Term GPA: 0.00 - 4.00
Status
Pell Status
Student Type

Clear all filters

To select multiple options, press CTRL while clicking your desired filter selections

Enrollment by Degree Type



Degree	Enrollment
AAS	1118
Non-Degree	1033
AS	921
AA	310
AST	88
CRT	32

Enrollment by Program

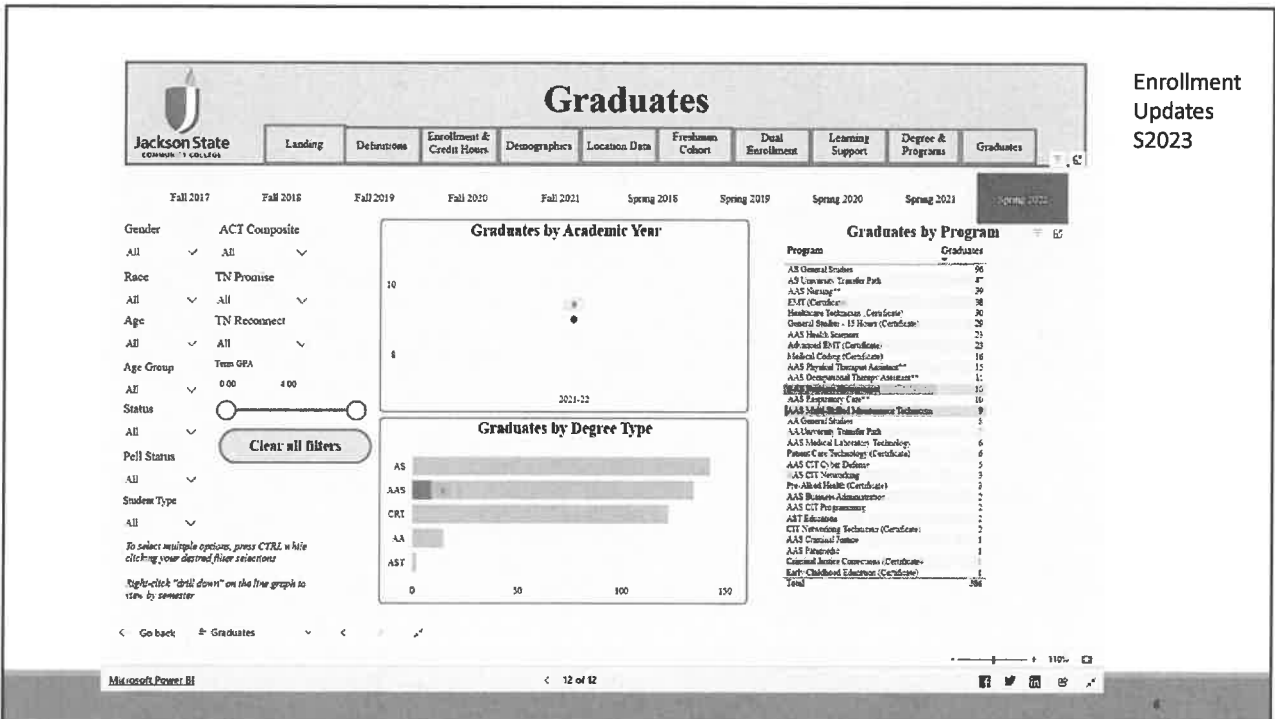
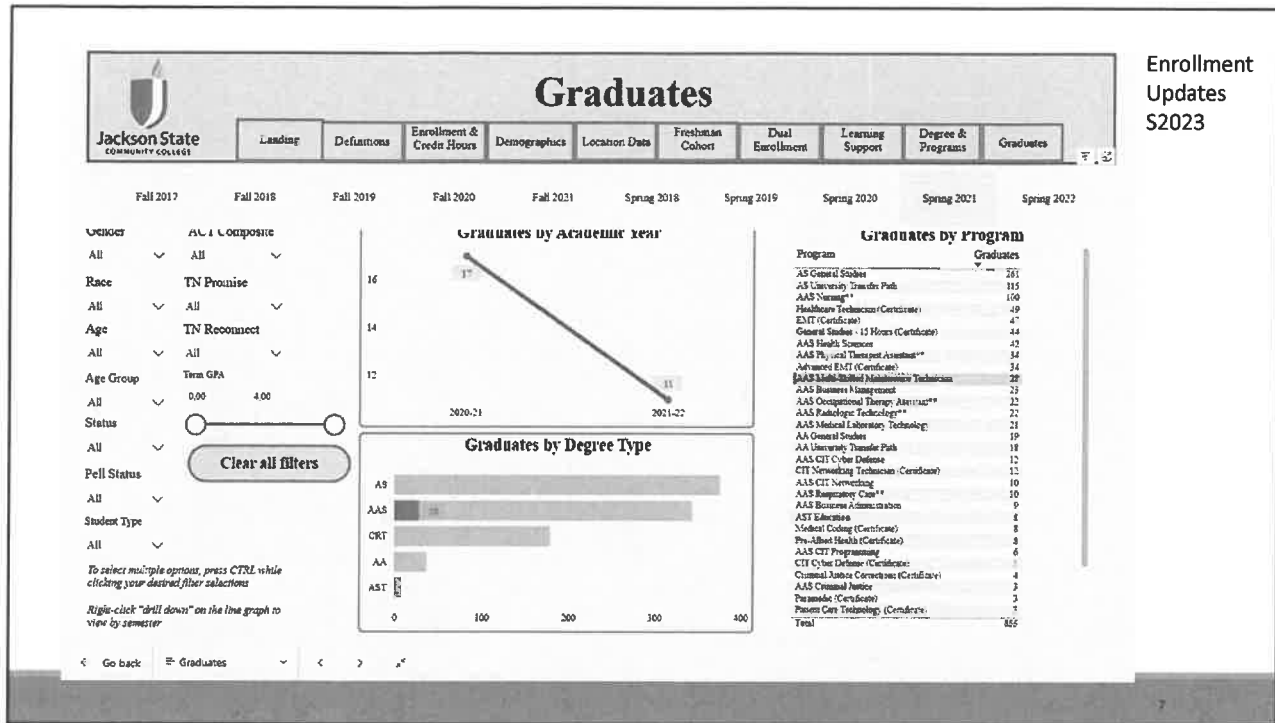
Major	Headcount	%
AAS General Studies	67	22.04%
AS University Transfer Path	13	17.90%
HS Interest: Nursing	276	12.00%
AAS Nursing**	142	6.17%
AAS Health Sciences	113	4.91%
AAS Business Administration	90	3.91%
AA University Transfer Path	83	3.61%
AST Education	80	3.48%
AA General Studies	67	2.91%
AAS Multi-Skilled Maintenance Technician	62	2.70%
HS Interest: RAD	57	2.48%
AAS Radiologic Technology**	38	1.65%
AAS Physical Therapist Assistant**	34	1.48%
AAS Business Management	32	1.39%
HS Interest: ENIT	32	1.39%
Total	2300	100.00%

(*) - One star denotes an inactive or shuttered program.
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 Note: Academic Focus* and Non-Degree Seeking have been excluded from the Enrollment by Program table.

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Enrollment Updates S2023

Headcount Increased from 47 to 62 when comparing Spring 2021 and Spring 2022 enrollment numbers



JSCC Engineering Systems Technology Advisory Board Meeting – Spring 2023

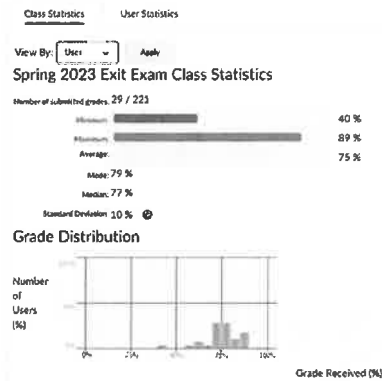
Program Updates

- Graduation (Continued)

(27+) students participated in our Spring 2023 graduation, allowing the number of graduating students to equal / approach the Spring 2021 graduating student total.

JSCC Engineering Systems Technology Advisory Board Meeting – Spring 2023

Item Statistics: Spring 2023 Exit Exam



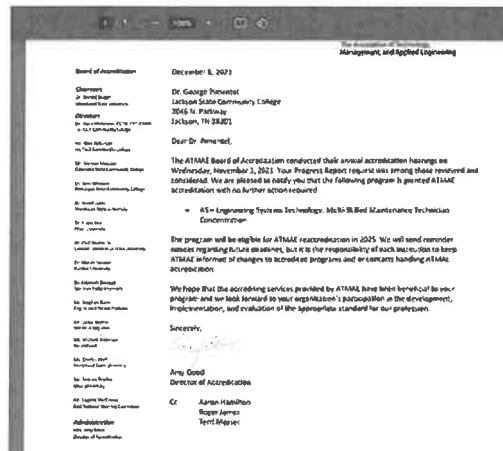
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Program Schedule Review

- ✓ Daytime Cohort - AMT 8's and 9's
- ✓ Evening Cohort 7-Week Class Schedule format for Fall 2023

JSCC Engineering Systems Technology Advisory Board Meeting – Spring 2023

ATMAE Accreditation (FYI)



JSCC Engineering Systems Technology Advisory Board Meeting – Spring 2023

Program Funding Efforts

- ✓ Lab Equipment (*Mechatronics Trainer*)
- ✓ TCAT Articulation Efforts
- ✓ Workforce Development
- ✓ Perkins



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JSCC Engineering Systems Technology Advisory Board Meeting – Spring 2023

Community Recruiting

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JSCC Engineering Systems Technology Advisory Board Meeting – Spring 2023

2023 AMT Recruiting Changes

- ✓ AMT Registration Form Construction Efforts
- ✓ Robotics Judging

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Staff Development

- SACA Gold Training for faculty members Summer 2022 (Faculty)

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JSCC Engineering Systems Technology Advisory Board Meeting – Spring 2023

Curriculum Review

- ✓ENST 1311 Electrical Circuits I
- ✓ENST 1310 Computers In Engineering
- ✓ENST 2350 Lean Manufacturing

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Review of Program Goals

- ✓Long Range Goals
- ✓Short Range Goals
- ✓Specific Course Validations

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Meeting – Spring 2023*

Summary / Conclusion