



ARTICULATION AGREEMENT SURVEY

**A Survey Conducted by
The American Society of Radiologic Technologists**

June 2008

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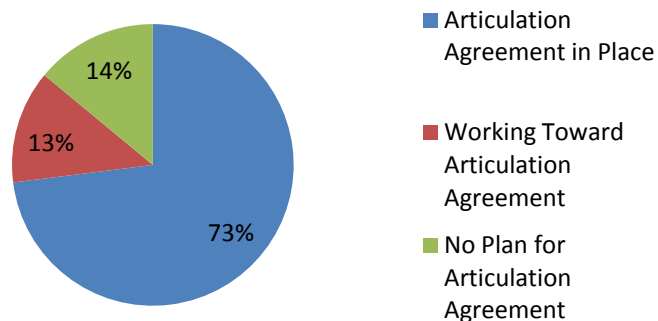
Executive Summary

In early April 2008 an invitation to participate in an Articulation Agreement Survey was sent via e-mail to each of the 125 directors of educational programs in radiation therapy and each of the 742 directors of radiography programs recognized by the American Registry of Radiologic Technologists (ARRT). Each invitation included the URLs for two online questionnaires: one to be completed by directors of certificate-only programs and one to be completed by directors of degree-granting programs.

As of April 23, 2008, responses had been received from the directors of 59 radiation therapy programs (21 certificate-only, 38 degree-granting) and from 409 radiography programs (127 certificate-only, 282 degree-granting) for an overall response rate of 52.8%.

Currently, 73% of certificate-only programs have in place articulation agreements that permit their graduates to obtain an associate or a bachelor degree. Of the remaining 27%, about 13% are working toward such an arrangement, leaving only about 14% with neither current nor planned articulation agreements for their graduates.

Articulation Agreement Status of Certificate Programs



A majority (63%) of the articulation agreements (in which degree-granting programs are involved) award a bachelor's degree, as compared to 49% that lead to an associate degree. NOTE: The two categories total more than 100% because some articulation agreements provide for both degrees.

Attitudes of program directors toward articulation agreements appear to be predominantly positive. When directors of certificate-only programs who reported having an articulation agreement were asked to "briefly describe what you perceive to be the advantages and disadvantages to your students and/or your program of this articulation agreement," the number of advantages cited (86) outnumbered the disadvantages cited (15) by more than 5 to 1.

When directors of degree-granting programs who are involved in articulation agreements were asked to "briefly describe what you perceive to be the advantages and disadvantages to your program and/or to your college or university of the articulation agreement with the certificate program(s)," advantages cited (33) outnumbered disadvantages (7) by almost 5 to 1.

The most commonly cited advantage was professional and/or educational advancement (43 citations by certificate-only program directors and 18 by degree-granting program directors). The only disadvantages cited by more than two program directors were higher cost for the student (cited 5 times) and that recent high school graduates do not have enough general education credits to apply to the certificate-only programs, which require it for admission, thereby limiting the number of applicants.

There are few large and/or statistically significant differences between radiography programs and radiation therapy programs. Likewise, there are few statistically significant differences among different regions of the country in the above results. Some instances include:

- Degree granting radiation therapy programs' institutions were significantly more likely (39%) than radiography programs' institutions (19%) to be involved in articulation agreements with certificate-only programs.
- Certificate-only programs in the Northeast and South Central regions were significantly more likely (24% combined) to have no articulation agreements than those in the Midwest and Southeast regions (8%).
- The Midwest, Northwest, and Southwest regions were significantly more likely (90.5% combined) to make the general education requirement a prerequisite to admission to the program than were programs in the Northeast, Southeast, and South Central regions (74.7% combined).

A second part of the survey asked program directors to indicate when general education courses were completed. Almost all (98.6%) certificate-only programs require students to either complete their general education requirements before being admitted to the program or before graduating from the program.

Detailed Responses to Survey Questions

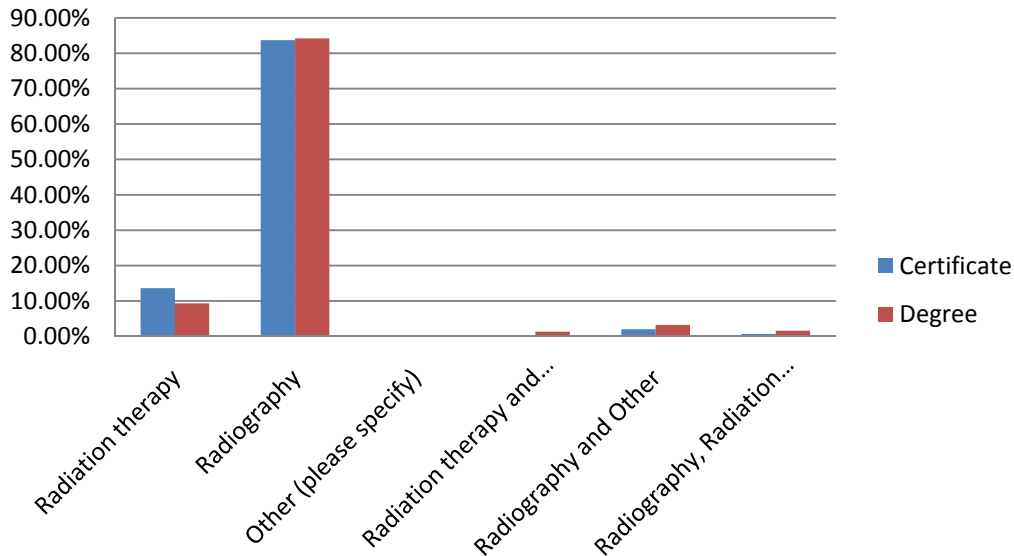
Educational Programs' Involvement in Degree-Completion Agreements U.S.-based Programs Only

Program Demographics

A. (Question #1 on all versions of survey) In what discipline(s) does your program provide education leading to ARRT certification?

| Discipline | Certificate-only Programs | | Degree-granting Programs | |
|--|---------------------------|---------|--------------------------|---------|
| | Frequency | Percent | Frequency | Percent |
| Radiation therapy | 20 | 13.6 | 29 | 9.3 |
| Radiography | 123 | 83.7 | 262 | 84.2 |
| Other (Please specify) | 0 | 0.0 | 1 | .3 |
| Radiation therapy and Radiography | 0 | 0.0 | 4 | 1.3 |
| Radiography and other | 3 | 2.0 | 10 | 3.2 |
| Radiography, radiation therapy and other | 1 | .7 | 5 | 1.6 |
| Total | 147 | 100.0 | 311 | 100.0 |

Disciplines Provided by Program



B. (Question #2 on all versions of survey) What is (are) the terminal award(s) granted by your program?

| Terminal Award | Certificate-Only Program | | Degree-Granting Programs | |
|-----------------------------|--------------------------|---------|--------------------------|---------|
| | Frequency | Percent | Frequency | Percent |
| Certificate only | 147 | 100 | 0 | 0 |
| Associate only | 0 | 0 | 237 | 76.2 |
| Bachelor's only | 0 | 0 | 36 | 11.6 |
| Combo including certificate | 0 | 0 | 29 | 9.3 |
| Combination of degrees | 0 | 0 | 9 | 2.9 |
| Total | 147 | 100 | 311 | 100 |

C. (Question #3 on all versions of survey) In what state is your program located?

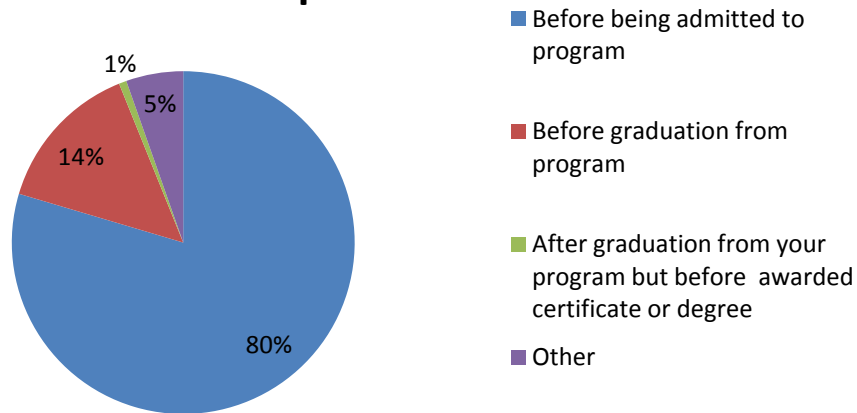
- All states represented in certificate-only sample except: AK, DC, DE, HI, ID, KS, MA, MS, MT, NH, NM, NV, OR, VT, WA, WY, AZ, UT, WY.
- All states represented in degree-granting sample except: ME, RI, WY.

General Education Requirements

D. (Question #4 on certificate survey) By what point in their educational careers must your students have completed their general education requirements?

| Response | Frequency | Percent |
|--|-----------|---------|
| Before being admitted to your program | 117 | 79.6 |
| Before graduation from your program | 21 | 14.3 |
| After graduation from your program but before being awarded their terminal certificate or degree | 1 | .7 |
| Other | 8 | 5.4 |
| Total | 147 | 100.0 |

Timing of General Education Requirements

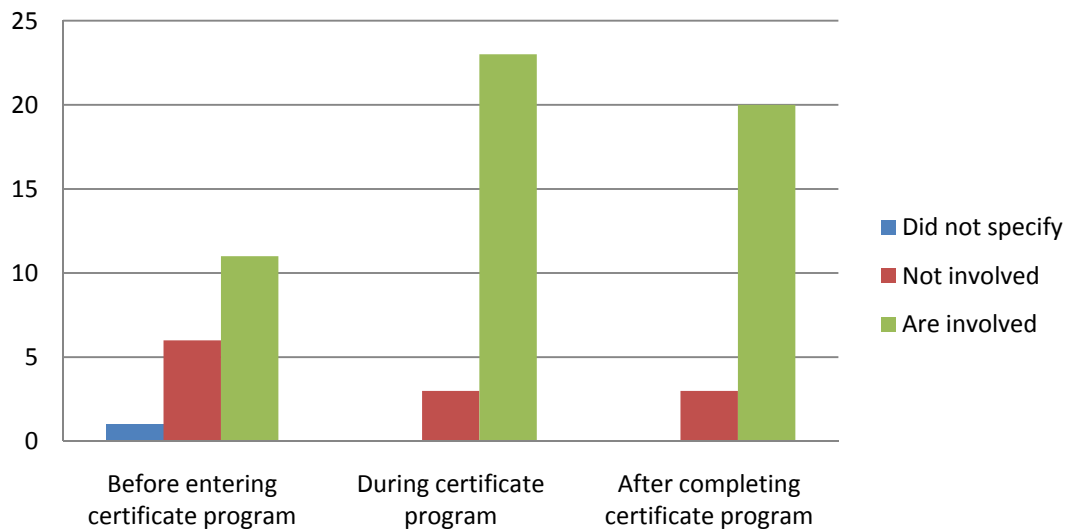


Directors of degree-granting programs who indicated that the institutions within which their programs are housed are involved in articulation agreements with certificate-only programs were asked to answer the following question:

E. (Question #6 on Degree survey) When do the students in the certificate program(s) take their general education courses from your college or university? (Check all that apply.)

| Program That Did not Specify Whether Involved in Articulation Agreement(s) | | | | |
|--|-----------|---------|---------------|--------------------|
| Response | Frequency | Percent | Valid Percent | Cumulative Percent |
| Before entering certificate program | 1 | 6.3 | 100 | 100 |
| Missing | 15 | 93.8 | | |
| Total-did not specify | 16 | 100 | | |
| Programs That Said They're Not Involved in Articulation Agreement(s) | | | | |
| Before entering certificate program | 6 | 2.6 | 50.0 | 50.0 |
| During certificate program | 2 | .8 | 16.6 | 66.6 |
| After completing certificate program | 3 | 1.3 | 25.0 | 91.6 |
| Other timing | 1 | .4 | 8.3 | 99.9 |
| Total valid | 12 | 5.2 | 100 | |
| Missing | 220 | 94.8 | | |
| Total non-involved | 232 | 100 | | |
| Programs That Are Involved in Articulation Agreements | | | | |
| Before entering certificate program | 11 | 17.5 | 19.6 | 19.6 |
| During certificate program | 23 | 36.5 | 41.07 | 60.6 |
| After completing certificate program | 20 | 28.6 | 32.1 | 92.7 |
| Other timing | 2 | 3.2 | 3.6 | 96.3 |
| Total Valid | 56 | 88.9 | 100.0 | |
| Missing | 7 | 11.1 | | |
| Total involved programs | 63 | 100.0 | | |

Overall Timing of General Education



F. (Question #5 on certificate survey) What other restrictions (if any) does your program put on how your students satisfy their general education requirements (e.g., on-campus vs. online, only from a specific college)?

Program directors' responses to this open-ended question were coded as follows:

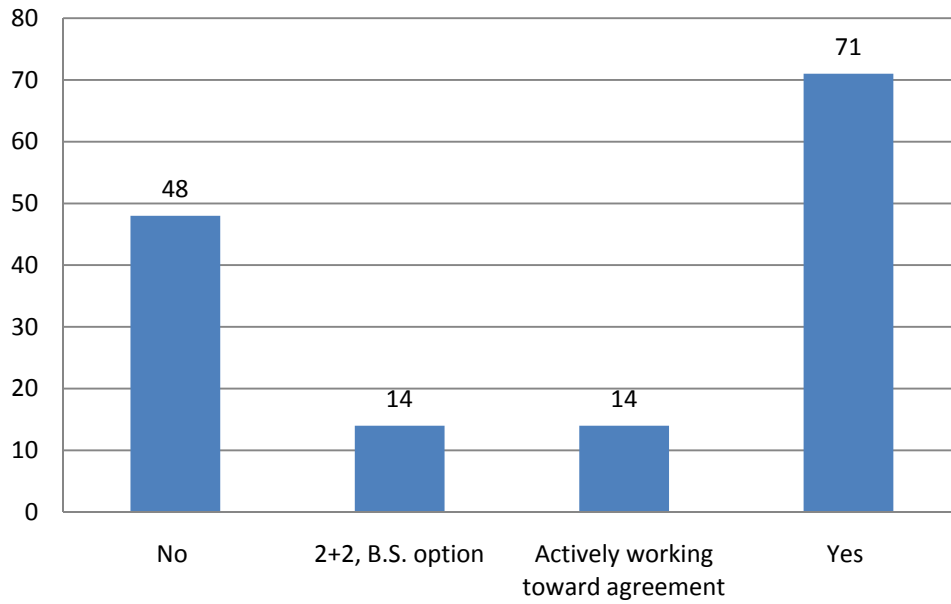
| Other restrictions on how satisfy GE requirement | Responses | | Percent of Cases |
|--|-----------|---------|------------------|
| | N | Percent | N |
| No other restrictions mentioned | 101 | 65.2% | 68.7% |
| College must be regionally accredited | 28 | 18.1% | 19.0% |
| GPA requirement (e.g., C or better) | 8 | 5.2% | 5.4% |
| Must be completed at a specific college | 4 | 2.6% | 2.7% |
| Specific courses must be taken | 4 | 2.6% | 2.7% |
| Within the past X years | 3 | 1.9% | 2.0% |
| Specific courses cannot be completed online | 3 | 1.9% | 2.0% |
| Other restriction | 3 | 1.9% | 2.0% |
| Anatomy I and II taken at the same institution | 1 | .6% | .7% |
| Total | 155 | 100.0% | 105.4% |

Degree-Completion Arrangements

G. (Question #6 on certificate survey) Does your program have an articulation agreement with a college or university that allows your students to obtain an associate degree from that college or university?

| Does program's institution participate in an articulation agreement(s)? | | | | | |
|---|-----------|---------|---------------|--------------------|------------------------------|
| Responses | Frequency | Percent | Valid Percent | Cumulative Percent | Estimated Population Percent |
| No | 48 | 32.7 | 32.7 | 32.7 | --- |
| 2+2, B.S. option | 14 | 9.5 | 9.5 | 42.2 | 12.8 |
| Actively working toward agreement | 14 | 9.5 | 9.5 | 51.7 | 12.8 |
| Yes | 71 | 48.3 | 48.3 | 100 | --- |
| Total | 147 | 100 | 100 | | |

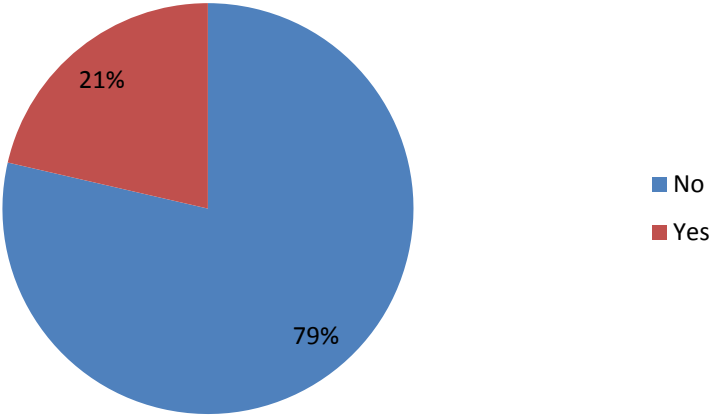
Participation in Associate Articulation Agreement



H. (Question #4 on degree survey) Does the college or university within which your program is housed have an existing articulation agreement with a certificate program or programs that allows its students to receive an associate or bachelor’s degree from your college or university following or concurrent with graduation from the certificate program?

| Response | Frequency | Percent | Valid Percent |
|----------|-----------|---------|---------------|
| No | 232 | 74.6 | 78.6 |
| Yes | 63 | 20.3 | 21.4 |
| Total | 295 | 94.9 | 100.0 |
| Missing | 16 | 5.1 | |
| Total | 311 | 100.0 | |

Articulation Agreement with Certificate Program

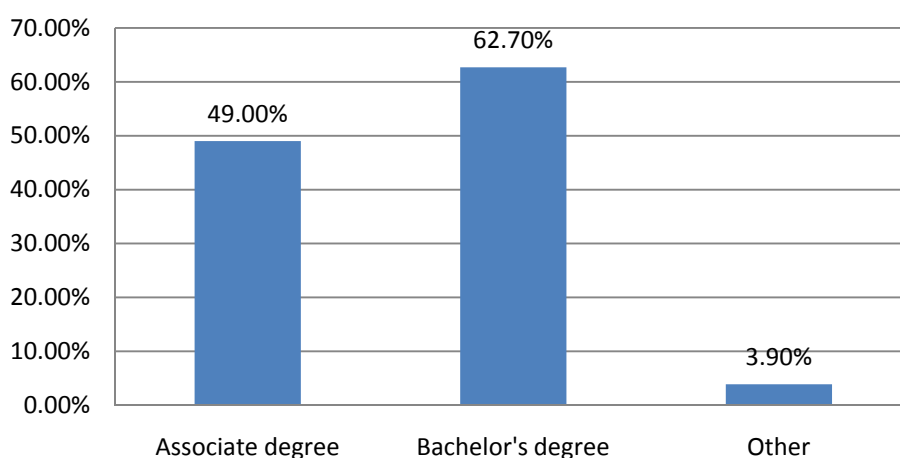


The percent of degree-granting programs (21.4%) in which directors report being involved in articulation agreements with certificate-only programs is much lower than the percent of certificate-only programs reporting such an agreement with a degree-granting program’s host institution (about 60%). This is probably due to the fact that there are more than 2.5 times as many degree-granting as certificate-only programs in the population.

I. (Question #5 on Degree survey) What degree(s) may students in the certificate program(s) obtain from your college or university? (Check all that apply.)

| Degree Obtained from College | | | |
|------------------------------|-----------|---------|------------------|
| Type of Degree | Responses | | Percent of Cases |
| | N | Percent | N |
| Associate degree | 25 | 42.4% | 49.0% |
| Bachelor's degree | 32 | 54.2% | 62.7% |
| Other | 2 | 3.4% | 3.9% |
| Total | 59 | 100.0% | 115.7% |

Type of Degree



J. (Question #7 on certificate survey) Please briefly describe what you perceive to be the advantages and disadvantages to your students and/or your program of this articulation agreement.

Responses to this open-ended question were coded as follows:

| Response Category | Responses | Percent of Cases | |
|--|-----------|------------------|--------|
| | N | Percent | N |
| Advantages of Agreement | | | |
| Educational advancement opportunities | 30 | 27.27% | 37.97% |
| Professional advancement opportunities | 13 | 11.82% | 16.46% |
| Flexibility and convenience for the student | 8 | 7.27% | 10.13% |
| Increases the professionalism / academic ability of applicants | 7 | 6.36% | 8.86% |
| Builds rapport between hospitals and colleges | 4 | 3.64% | 5.06% |
| Students receive credit for education | 4 | 3.64% | 5.06% |
| Access to student services on the college campus | 4 | 3.64% | 5.06% |
| Easier transfer of credit | 4 | 3.64% | 5.06% |
| Increased professionalism | 3 | 2.73% | 3.80% |
| Easily meet general education requirement | 3 | 2.73% | 3.80% |
| Lower cost for student | 2 | 1.82% | 2.53% |
| Increases the applicant pool | 2 | 1.82% | 2.53% |

| | | | |
|--|-----|---------|---------|
| Increases critical thinking skills | 1 | 0.91% | 1.27% |
| Increases communication skills | 1 | 0.91% | 1.27% |
| Total comments on advantages | 86 | 78.18% | 108.86% |
| Disadvantages of agreement | | | |
| Higher cost for the student | 5 | 4.55% | 6.33% |
| Recent high school graduates do not have enough credits to apply (limits applicants) | 3 | 2.73% | 3.80% |
| Degree does not ensure higher salary | 2 | 1.82% | 2.53% |
| Students forced to take courses they may not desire | 1 | 0.91% | 1.27% |
| Requires more time in school for students | 1 | 0.91% | 1.27% |
| Loss of control over program | 1 | 0.91% | 1.27% |
| Transfer credits from certificate program are undervalued | 1 | 0.91% | 1.27% |
| Limited space | 1 | 0.91% | 1.27% |
| Total comments on disadvantages | 15 | 13.64% | 18.99% |
| N/A Comments | 9 | 8.18% | 11.39% |
| Total Comments | 110 | 100.00% | 139.24% |

K. (Question #7 on Degree survey) Please briefly describe what you perceive to be the advantages and disadvantages to your program and/or to your college or university of the articulation agreement with the certificate program(s).

Degree-granting program directors' responses to this open-ended question were coded as follows:

| Response Category | Responses | | Percent of Cases |
|---|-----------|---------|------------------|
| | N | Percent | N |
| Advantages of Involvement in Articulation Agreements | | | |
| Educational advancement | 14 | 28.57% | 35.00% |
| Flexibility of degree completion (including online courses) | 5 | 10.20% | 12.50% |
| Professional advancement/flexibility | 4 | 8.16% | 10.00% |
| Raises the professional standing of radiography/radiation therapy | 4 | 8.16% | 10.00% |
| Increases college enrollment | 3 | 6.12% | 7.50% |
| Increased communications skills | 1 | 2.04% | 2.50% |
| Increased critical thinking skills | 1 | 2.04% | 2.50% |
| Validates a student's education | 1 | 2.04% | 2.50% |
| Total comments on advantages | 33 | 67.35% | 82.50% |
| Disadvantages of articulation with certificate-only program | | | |
| increased cost | 2 | 4.08% | 5.00% |
| Education received via degree completion not comparable to pure AS/BS | 2 | 4.08% | 5.00% |
| Confusion over program "ownership" | 1 | 2.04% | 2.50% |
| Students may choose a certificate program over a "true" college-based program | 1 | 2.04% | 2.50% |
| Difficult to evaluate certificate coursework | 1 | 2.04% | 2.50% |
| Total | 7 | 100% | 116.70% |
| N/A comments | 9 | 14.3% | 22.50% |
| Total comments | 49 | 100% | 122.50% |

Note: A total of 40 program directors (only one of whose programs is *not* involved in an articulation agreement) responded to this question.

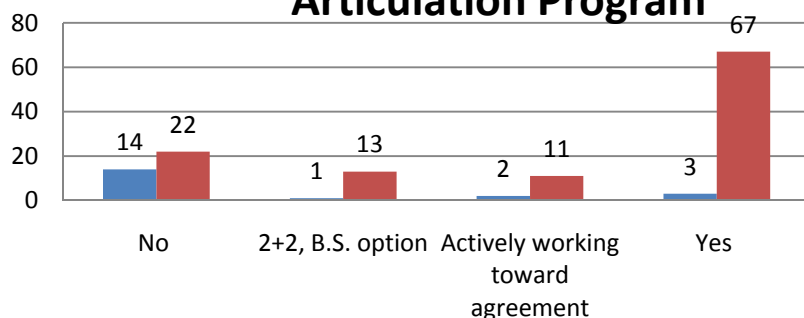
Relationships between Variables

Relationship of Certificate-Only Programs' Involvement to Discipline

| Does program have an articulation agreement(s)? | Statistic | 1. In what discipline(s) does your program provide education leading to ARRT certification? | | | | Total |
|---|--------------------|---|--------------|-----------------------|--|--------------|
| | | Radiation therapy | Radiography | Radiography and Other | Radiography, Radiation Therapy and Other | |
| No | Count | 14 | 22 | 1 | 1 | 38 |
| | % | 70.0% | 26.0% | 33.3% | .0% | 25.8% |
| | Pop % ^a | 33.3% | 10.4% | --- | --- | 13.8% |
| 2+2, B.S. option | Count | 1 | 13 | 0 | 0 | 14 |
| | % | 5.0% | 10.6% | .0% | .0% | 9.5% |
| | Pop % ^a | 11.1% | 13.5% | --- | --- | 12.8% |
| Actively working toward agreement | Count | 2 | 11 | 1 | 0 | 14 |
| | % | 10.0% | 8.9% | 33.3% | .0% | 9.5% |
| | Pop % ^a | 22.2% | 11.5% | --- | --- | 12.8% |
| Yes | Count | 3 | 67 | 1 | 0 | 66 |
| | % | 15.0% | 54.4% | 33.3% | .0% | 47.6% |
| | Pop % ^a | 33.3% | 60.4% | --- | --- | 56.9% |
| Total | Count | 20 | 123 | 3 | 1 | 147 |
| | % | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% |

^aNote: Pop % = population percent, which is an estimate of the percentage of all degree-granting programs that fall into the specified category: participating in a formalized articulation agreement, participating in an informal articulation agreement, participating in an articulation agreement leading to a bachelor's degree (rather than an associate's degree), working toward an articulation agreement, or having no degree-completion arrangements.

Comparison of RT and Radiography Articulation Program



Radiation therapy program directors were statistically significantly more likely to give an unqualified, or at least, uncommented upon “No” answer than were directors of radiography programs (55% vs. 18%; $\chi_1^2 = 13.349$, $P < .001$). Among the program directors whose comments could be used to pin down more precisely the meaning of their “Yes” or “No” answer to question 4, three (33%) of the nine radiation therapy program directors and 10 (10.4%) of the radiography program directors fell into the unqualified-No category; this difference was statistically significant at the .05 level by chi-square test ($\chi_1^2 = 3.984$, $P = .046$) but not by Fisher’s exact test ($P = .081$).

Radiation therapy program institutions were significantly less likely (61%) than radiography programs institutions to be involved in articulation agreements with certificate-only programs, ($\chi_1^2 = 5.882$, $P = .015$).

Appendix A: Verbatim Responses

Comments are listed exactly as written with the exception of edits made in [brackets] which were changed to ensure anonymity.

L. (Question #8 on all versions of survey) Please add here any comments that would help us better understand your answers to the preceding questions and any further thoughts you have on the issue of how best to provide general education and degree status to students in R.T. educational programs

| | Frequency |
|--|-----------|
| BLANK | 84 |
| 90% OF OUR STUDENTS HAVE EARNED A DEGREE OR HAVE COLLEGE CREDIT. WE ARE ENCOURAGING OUR GRADUATES WHO HAVE NOT EARNED A DEGREE TO CONTINUE THEIR EDUCATION THROUGH ONE OF THE UNIVERSITIES ACCEPTING THEIR ARRT STATUS AND GRANTING THEM SOME CREDITS TOWARD A DEGREE. | 1 |
| All of our candidates must be RT(R) prior to matriculation. We are currently in discussions with a local college to initiate a 2+2 BS degree; I am working to have this in place for my incoming class in 2010, if not sooner. | 1 |
| Although we are a hospital based program, we feel that this is a positive move and agree with the concept. | 1 |
| As a new director and in the process of developing an associate degree program, I can see pros and cons of both types of programs (cert. and assoc.). If we decide to go college, our program will be a three year educational process and some potential students looking to enter the field with minimal cost will be lost. However, in order to raise the bar of professionalism, I feel the fifteen college credit minimum helps to grow individuals towards effective communication and professionalism. The one thing I know I will not do with any program is attempt to meet the associate degree credit requirements and radiography program educational/clinical requirements within a two year program. I have experience with this type of program and the lack of clinical experience from such a program is the greatest disservice to our profession. | 1 |
| As a Radiation Therapy Program Director I would like to ensure that students could go from their medical radiography program directly into radiation therapy. To require them to take additional prerequisites may lead to some changing their mind and therefore decreased interest--or have in them do pre requisites in conjunction with their medical imaging program--and I think that one class or the other may suffer. thanks [X] | 1 |
| As the profession continues to enhance professional standing through level of formal education we must continue to assure students develop excellent technical skills upon graduation. Hospital-based programs are a sure source of skilled technologists. Allowing such programs to function is extremely important. This can be done through articulation and cooperative agreements between hospital-based programs and colleges which can award college credit for the general courses, as well as a degree [X]Please note that I was not sure my first attempt at the survey was sent so this my second submission. When I clicked on FINISH the survey clear itself and I did not get an message it was sent. | 1 |
| At least 12 colleges are available in the city that allows them to acquire the gen ed requirement. This has not been a problem at all for our program. | 1 |
| Certificate programs that require the general education as prerequisites now have more clinical and didactic hours of education than most Associate degree programs. It's a shame that some even in our own in our profession view this type of program as no longer necessary and less professional. | 1 |
| First and foremost, I think programs should be given the flexibility to tailor their programs to the communities they serve. One should be careful not to endorse and require that programs abide by "one" solution. We prefer the ability to require some general ed courses prior to admission and others during their participation in the program. This approach still gives us the unique opportunity to gauge students' level of preparation and tailor the course to their specific needs. | 1 |
| Have had this general education requirement established for many years. Allows students seeking post primary education to transfer credit to university setting. | 1 |
| Hopefully my answers explain this process clearly. The faculty, students and graduates feel we have the best of both worlds, a quality hospital based education and transferable college credits. | 1 |
| I along with other Program Directors feel that both the ASRT and [X] are trying and will eliminate hospital base programs in favor of turning them into college based programs. We also feel it is unfair to students to get rid of instructors who have been teaching for over 20 years for not having a degree and consider this as blackmail. Get your degree or get out, no matter how many years of service you have. | 1 |
| I am concerned about the number of hospital based programs that are having a problem with this. I think it is important for the students to have this background, and the program directors of the certificate programs perceive it to be a threat to their existence. I think it should be a motivation to affiliate with a campus and work toward this goal.. | 1 |
| I am currently in the process of articulating an agreement with a local junior college for general education requirements and in the future an associate degree for a terminal award upon completion. | 1 |
| I am interested in knowing the initial steps to take toward acquiring an articulation agreement with a college or university to enable our students to obtain an associate or baccalaureate degree. | 1 |
| I believe the certificate is what is needed in our field not a degree. That fact is proven in the workplace, our pay is based on years of experience not degrees. In opposition to that is the [X] only requiring 3 years of experience but a Masters degree in anything to be program director. I think we need to decide what is important to our field is it experience or a degree? Are we enhancing the field of | 1 |

| | |
|--|---|
| radiography or trying to keep up with other fields. | |
| I don't believe that the general education courses should be "required" of all students. I believe that certificate students are very well prepared to work as staff radiographers in the medical imaging department. The associate degree does enhance the student's education and is very beneficial for students who want to pursue further education and advancement in the profession. | 1 |
| I have learned over the years that students who did not have a favorable experience in high school tend to shy away from college. Certificate programs provide an opportunity for those people to advance their position in the job market after they have matured some and realize they need more education. Many are very intelligent but never applied themselves as teenagers. I have seen many students gain self-confidence and excel when they enter what they perceive as a non-threatening environment without the word "college" in it. | 1 |
| I have only been a program director for 6 months, but I feel strongly about the elevation of our professional status as R.T.s. | 1 |
| I personally feel the future of health care in the USA is a pending disaster. 70 million baby boomers, gutless leadership that won't address Medicare reform, shrinking reimbursement, increasing regulatory issues etc. I think preparing graduates for these challenges is very important. | 1 |
| I resent the implication that candidates taught in hospital based programs are unable to think critically! It's not the degree that makes the technologist a professional. That's the gov't definition of a professional. I encourage my students to pursue a degree but not for the purpose of becoming a health care professional...if they come to this program they leave as a "professional." | 1 |
| I support the general education requirement. However, I do not support the requirement of a degree given the absence of tangible data that supports the attainment of a degree. | 1 |
| I think it is a good thing, however I wish we had been given more time before implementation. | 1 |
| I think that we handle the required gen. ed. fine, as we use them as prerequisites. I think that there are more colleges offering articulation agreements, and that is great. But I don't think that every program needs to be degree granting. We should have the ability to offer other alternatives, but not the arrogance to think that everyone needs to complete their education in the same manner. One can be an excellent radiologic technologist, and not have a degree. It's clinical skill, ability to communicate, think critically, and respond to our patients' needs that is of utmost importance. | 1 |
| I think the ASRT needs to realize that having general education classes does not mean one has critical thinking skills. It also needs to realize that there is and will always be a need for certificate only programs. Some students enter my program already having an associate degree or a bachelor's degree or even a master's degree. These individuals don't need another degree. The perception is that the ASRT is trying to eliminate certificate, hospital based programs. What a wrong approach to this. Hospital based programs continue to graduate students that are the best prepared to enter the workforce. Gaining professional status doesn't mean having a degree. I'm very tired of the ASRT trying to force its' agenda on the rest of us. General education will do nothing for my graduates except provide an income source for the colleges they will obtain their credits from. I've had high school graduates that are far better students than many students who have college degrees. The ASRT needs to quit confusing professionalism with degree status. | 1 |
| I would like to have students coming from clinical programs have the option to complete some of the general education classes during the course of the program. I think this would enable more working or single parent family students to apply. | 1 |
| Increased opportunities for distance or online courses may help some students earn the required general ed courses. I have received several flyers from some colleges that will offer the courses online. We have never had a student apply who has completed the prerequisite courses online, however. | 1 |
| It is a little late in the game to ask this question. It would have been so much more beneficial to pose this question before mandating it. Those of us who run hospital based certificate programs recognize that it is the ASRT's desire to eliminate these programs. | 1 |
| It is still early in the game. Making the general education requirements prerequisites seems to work best for certificate programs. | 1 |
| Losing a lot of good candidates because of pre-req's. Will be interested in what ARRT registry results show if this is really helping make for better techs or just costing the students more to complete. | 1 |
| Most of our students already have an associate degree when they start our program. However, we are currently communicating with local community college for an articulation agreement. | 1 |
| N/A | 1 |
| Our hospital based certificate program is rather unique, the majority of our graduates have recvd. BS degrees from 3 state universities for over the last 25 yrs. The universities require they fulfill university requirements prior to attending any JRCERT certificate program, then grant them credit for graduating from a cert. program. | 1 |
| Our students take general education courses at our technical college or others in the state, but we are not COC accredited which means for our students that other university systems will not accept their credits for transfer in order to obtain the higher degree. They must retake courses such as English, Algebra, and Anatomy and Physiology. We are in the process of obtaining COC accreditation. | 1 |
| Requiring the prerequisites this year has had a negative impact on qualified applicant pool. We anticipate an increase for next year as marketing promotes the changes in the norm for this program. | 1 |
| Students entering our program have completed all the course requirements for their particular college in the major of Radiologic Technology. Our program works very well in this format, by helping students to complete their degree, and they enter the program with a well-rounded background of general education, which also helps meet the educational requirements for JCERT. | 1 |
| Students from our program are given the option of obtaining an associate degree as well as receiving the best clinical experience which is provided by a hospital-based program. If they choose to obtain an advanced degree, they can transfer locally to a 4-year college. | 1 |
| Students will have to be very aware of their credits and may not be willing to complete further studies post-graduate if they feel overwhelmed with school and credits... | 1 |
| The advantages are that students are beginning to believe that there is value to the degree although they prefer the "hand[s]-on" | 1 |

| | |
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| environment that our certificate program offers. Our students do not pay any extra tuition for their Rad Tech courses. A very small transcribing fee is included in the tuition they pay to our school. | |
| The AS degree is easier to matriculate into the only state-University program for a BAS, as well. | 1 |
| The avenue of requiring 15 hours of general education is a good track for students to obtain their associate degree, if those choose. I would be very disappointed if the programs are required to grant an associate degree from the sponsoring institution as this would not allow our program to be the sponsoring institution anymore and the staff would then be looking for another job at the community college that already has a radiology program. Ultimately we may have to close down our program, in which we are the oldest established program in this area. | 1 |
| The general education requirements were something our program already does because of our articulation with our community college for an AS degree. So, we did not have to change much. Thank you. | 1 |
| The local college will award a degree if a minimum of 15 credit hours the prerequisites are taken at that college. | 1 |
| There needs to be a method for hospital based programs to offer an Associate degree when the local community college is not willing to affiliate or associate with a hospital based program. | 1 |
| There are a variety of universities and colleges in the area that will award college credit for our Radiology program towards a Bachelor's degree. Three nearby institutions offer Bachelor's of Science Degrees in Radiology and no formal articulation agreement is necessary for my graduates to take advantage of this. Also, over the last five years, 46% of my entering students already have a degree, either an Associates or Bachelors. The majority of the these degrees have been Bachelor's. 100% of my entering students have previous college experience. I have investigated articulation agreements with a few institutions but found that there was not a great benefit for the students. Many opportunities are available to students to further their education since my program is located in a large metro area. | 1 |
| This is a very confusing time for our program right now(since this is the 1st year for us to add these GE courses into our curriculum). There are a lot of changes that must be made in order to accommodate those courses. Hopefully by next year our program will be able to satisfy the students GE requirements and also to be able to allow the students to obtain an associate degree from a College. | 1 |
| This is the first time that we have required general education courses for the radiography program. Our requirement is that the courses must be completed in order to satisfy graduation requirements. This is a pilot for us. We will revisit this requirement for next year to decide if we will keep the requirement as is o change and require the gen ed courses to be completed before being admitted to the program | 1 |
| We also accept other students from other colleges, both 2 year and 4 year institutions. I see a much better caliber of student entering our program and think the students that are accepted after completing some college level work will afford themselves a much greater chance of success within most Radiography Programs. | 1 |
| We also have an articulation arrangement with a University that permits the student to complete a B.S. or B.A. degree in as little as 30 credit hours. | 1 |
| We are currently looking at starting an affiliation with a local city college. I think that this is indeed needed, especially in that all other RT programs are at the city college level; it's important that the colleges not look down on our graduates, since they only receive a certificate! Thus our push toward the previously mentioned articulation. | 1 |
| We are in the process of converting our certificate-based hospital program to a BS program offering a BSRS. This will happen through an agreement with our existing College of Nursing and using their degree-granting authority | 1 |
| We are very interested in and look forward to your results from the survey. We are going to enter an articulation agreement in the future but are trying to figure out what is the best way. Do we have the students finish our two year program and go to a college for a third year to get the two-year AA? Do we have them do our program and take college classes at the same time? How is this going to affect their learning of the material if we have them do both at the same time? Thank you for doing this needed survey | 1 |
| We believe the 15 credits hours should precede the radiologic portion of the education. This will help prevent the few that would otherwise go through the radiologic portion of their education and then be unable to pass the math or communications requirements. Their investment in their radiologic education would for not. | 1 |
| We don't have much of a problem getting community colleges to grant an Associate of Applied Science degree based on our coursework plus some general education. The problem is at the University level. In [X], they are not as quick to recognize the Associate of Applied Science and let the student build from there. They have various restrictions such as a one year waiting period to obtain additional clinical experience. This interferes with the students' scholarships (once they have worked for a year, they don't qualify for the scholarship) and with their plans to continue with their schooling (once they have been out for a year making money, it's hard to give up that salary and go back to school - also they usually have increased their responsibilities with marriage, children, etc.) Tuition at the University level for online B.S. degree courses seems to also be high. Many times it is twice as much as regular tuition at that same facility. We tend to get better degree completion options from out of state Universities. | 1 |
| We feel the way we are doing it now. We were fine before the 15 required credits but now we have to obtain them. I strongly feel that the credit courses should be taken after the completion of the radiography program. | 1 |
| We feel very strongly that certificate programs offer the graduate an excellent learning experience and it is not necessary to have an associate or higher to become a professional in the Radiography discipline. We have a very strong reputation in regards to the qualified graduate of our program | 1 |
| We felt it was an easier transition for them to have the general education courses before being admitted into the program. | 1 |
| We have had required prerequisite courses for a number of years and have found this method helps our students with the advanced curriculum in our program. | 1 |
| We require 25 liberal arts and sciences credits prior to enrollment in the program - the first class under this requirement will begin in | 1 |

| | |
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| July 2008. We believe these students will be better overall prepared for their radiography courses, will have demonstrated they can do college-level work, and will not have to integrate liberal arts & sciences courses into the radiography curriculum - they can concentrate on the professional courses and we can provide more clinical time due to not having to schedule hours for liberal arts & sciences courses. | |
| We should highly encourage students to continue their education and strive to obtain degrees to broaden their knowledge and opportunities. However; degree attainment should absolutely not be mandatory for rad tech students to obtain nor programs to provide. Certificate programs provide both public and private, social and economic benefits for the good of society. | 1 |
| When ARRT passing rate(scores) are 100% and clinical competency, critical thinking skills upon completion of the first year of enrollment in a "certificate" program exceeds the entry level R.T.R of a "degree" program-----"what is the justification of the "degree" when obtaining a quality diagnostic image with the least amount of radiation exposure to the patient? | 1 |
| Working on an articulation agreement with a community college to further there educational interests. | 1 |
| Would be very interested in access to articulation agreements used with community or other colleges, as I would like to be able to offer at least an associates, ultimately a baccalaureate, to our students. | 1 |
| Total | 147 |

Appendix B: Degree Programs and Articulation Agreements

PROGRAM CHARACTERISTICS

1. In what discipline(s) does your program provide education leading to ARRT certification?

- Radiation therapy
- Radiography
- Other (please specify below)

Please specify:

2. What is(are) the terminal award(s) granted by your program? (Check all that apply.)

- Certificate
- Associate degree
- Bachelor's degree
- Other (please specify below)

Please specify:

If you checked only "Certificate," please contact ASRT Research Manager John Culbertson, jculbertson@asrt.org, for a questionnaire targeted at your experience with and views on articulation agreements.

3. In what state is your program located? (Two-letter abbreviation, please.)

ARTICULATION AGREEMENT(S) WITH CERTIFICATE PROGRAM(S)

4. Does the college or university within which your program is housed have an existing articulation agreement with a certificate program or programs that allows its students to receive an associate or bachelor's degree from your college or university following or concurrent with graduation from the certificate program?

- No. (If "No," please skip to question 8.)
- Yes.

5. What degree(s) may students in the certificate program(s) obtain from your college or university? (Check all that apply.)

- Associate degree
- Bachelor's degree
- Other (please specify below)

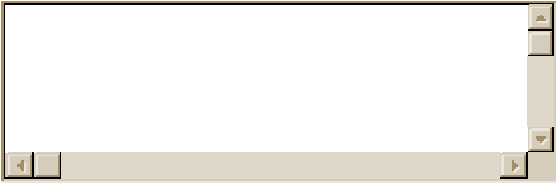
Please specify:

6. When do the students in the certificate program(s) take their general education courses from your college or university? (Check all that apply.)

- Prior to entering the certificate program
- Conjointly with the certificate program
- After completing the certificate program
- Other (please specify below)

Please specify:

7. Please briefly describe what you perceive to be the advantages and disadvantages to your program and/or to your college or university of the articulation agreement with the certificate program(s).



OTHER THOUGHTS AND COMMENTS

8. Please add here any comments that would help us better understand your answers to the preceding questions and any further thoughts you have on the issue of how best to provide general education and degree status to students in certificate-only R.T. educational programs.



Thanks very much for sharing your perspectives on general education and degree completion! If you have questions about this survey, please contact Research Manager John Culbertson at jculbertson@asrt.org.

Appendix C: General Education and Articulation Survey

PROGRAM CHARACTERISTICS

1. In what discipline(s) does your program provide education leading to ARRT certification?

- Radiation therapy
- Radiography
- Other (please specify below)

Please specify:

2. What is(are) the terminal award(s) granted by your program? (Please check all that apply.)

- Certificate
- Associate degree
- Baccalaureate degree
- Other (please specify below)

Please specify:

If you checked anything other than "Certificate," please contact Research Manager John Culbertson, jculbertson@asrt.org, for a questionnaire better suited to tapping degree-granting programs' perspectives on general education and degree completion.

3. In what state is your program located? (Two-letter abbreviation, please.)

GENERAL EDUCATION

4. By what point in their educational careers must your students have completed their general education requirements?

- Before being admitted to your program
- Before graduation from your program
- After graduation from your program but before being awarded their terminal certificate or degree
- Other (please specify below)

Please specify:

5. What other restrictions (if any) does your program put on how your students satisfy their general education requirements (e.g., on-campus vs. online, only from a specific college)?

DEGREES

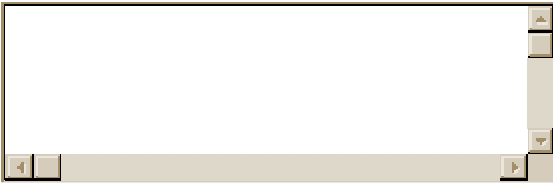
6. Does your program have an articulation agreement with a college or university that allows your students to obtain an associate degree from that college or university?

- No. (If "No," please skip to question 8.)
- Yes, with a community college.
- Yes, with a four-year college or university.
- Other (please specify below)

Please specify:

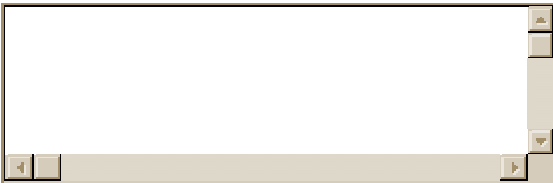
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7. Please briefly describe what you perceive to be the advantages and disadvantages to your students and/or your program of this articulation agreement.

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OTHER THOUGHTS AND COMMENTS

8. Please add here any comments that would help us better understand your answers to the preceding questions and any further thoughts you have on the issue of how best to provide general education and degree status to students in R.T. educational programs.

An empty rectangular text box with a light beige background and a thin black border. It contains no text or images.

Thanks very much for sharing your perspectives on general education and degree completion! If you have questions about this survey, please contact Research Manager John Culbertson at jculbertson@asrt.org.